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RECREATION USES ON THE NATIONAL FORESTS

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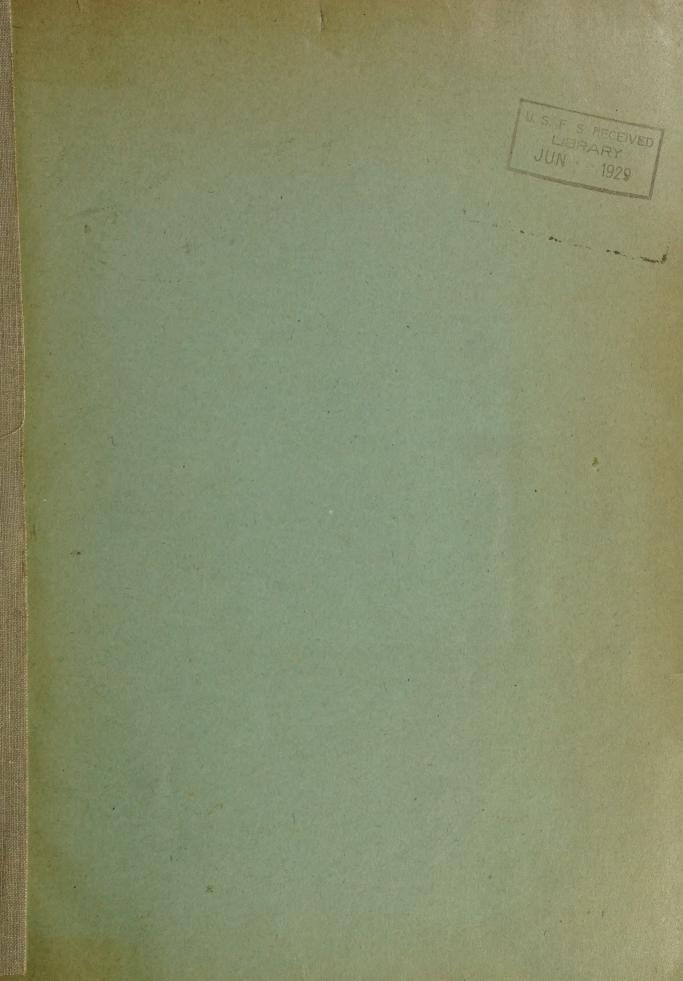
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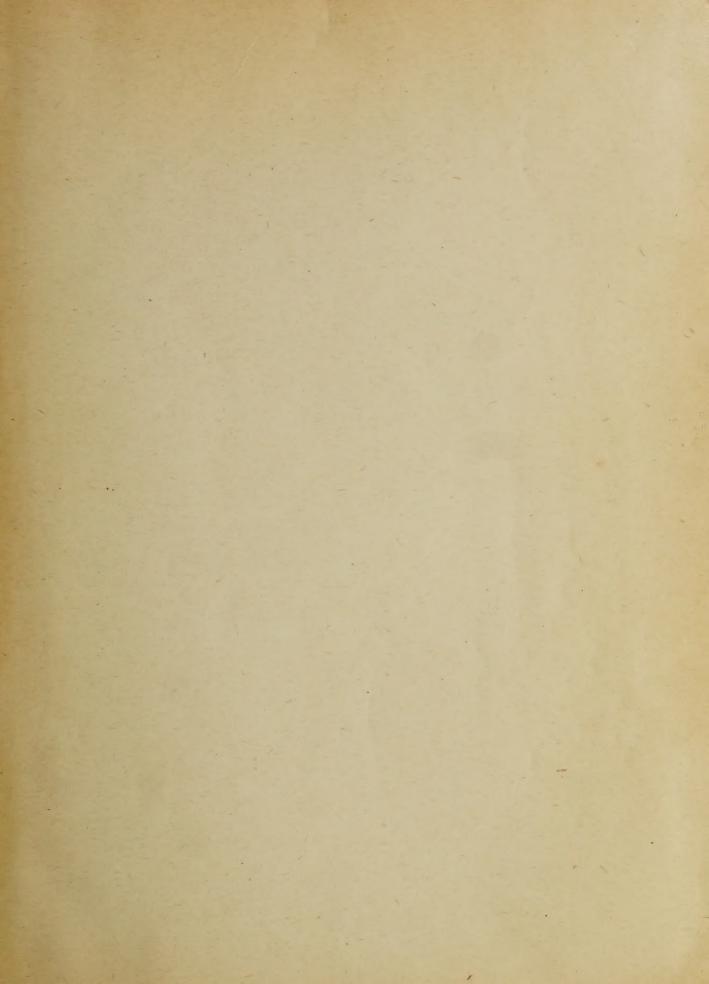
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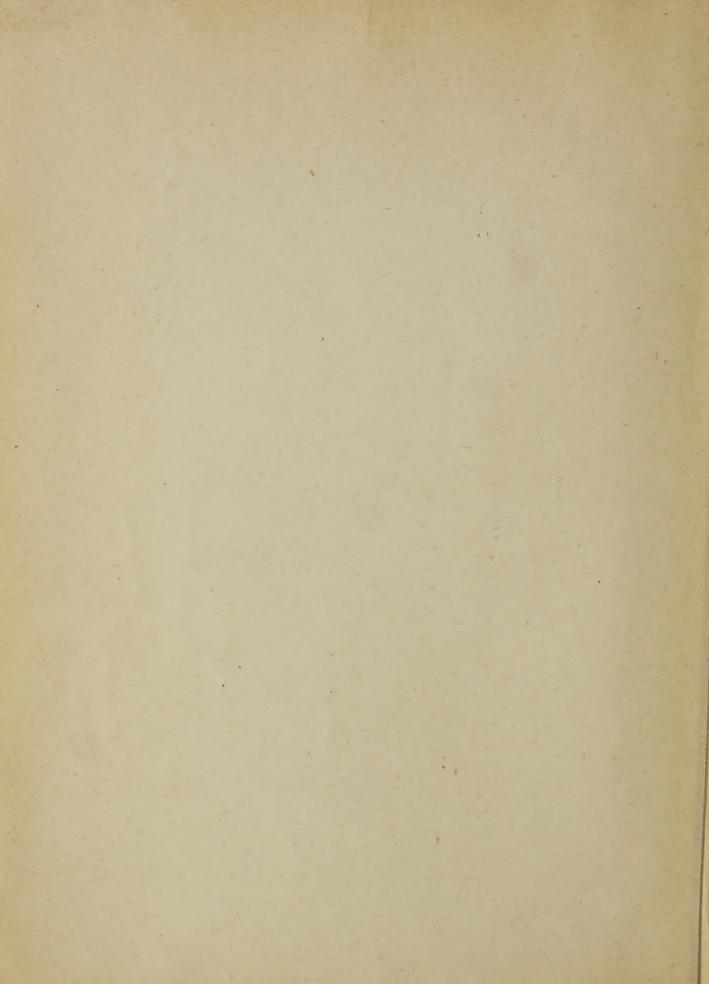
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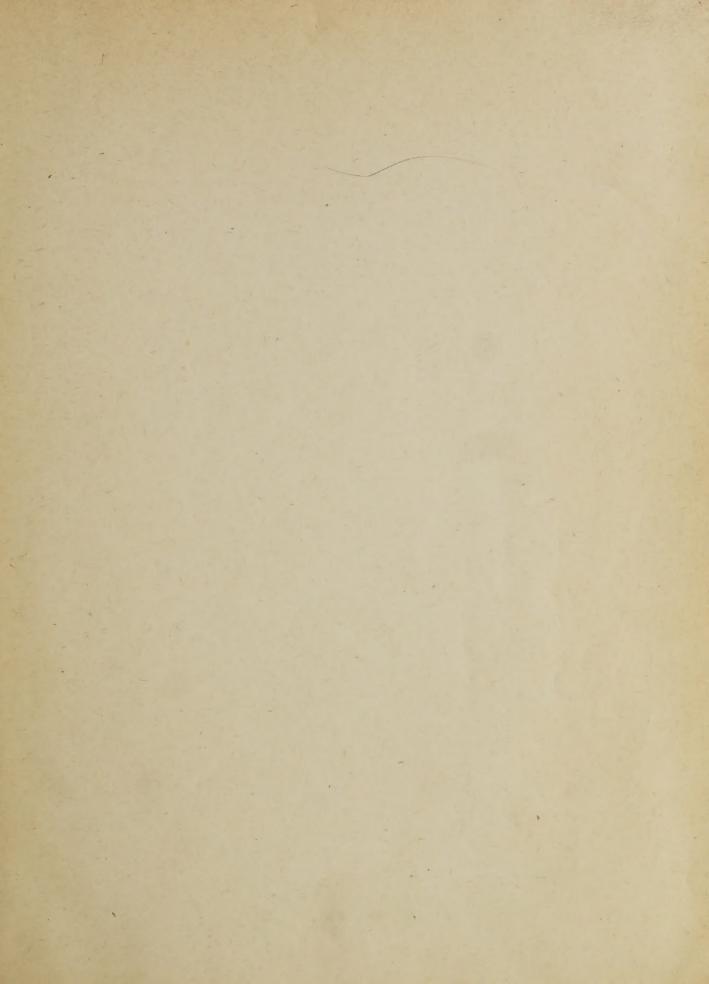
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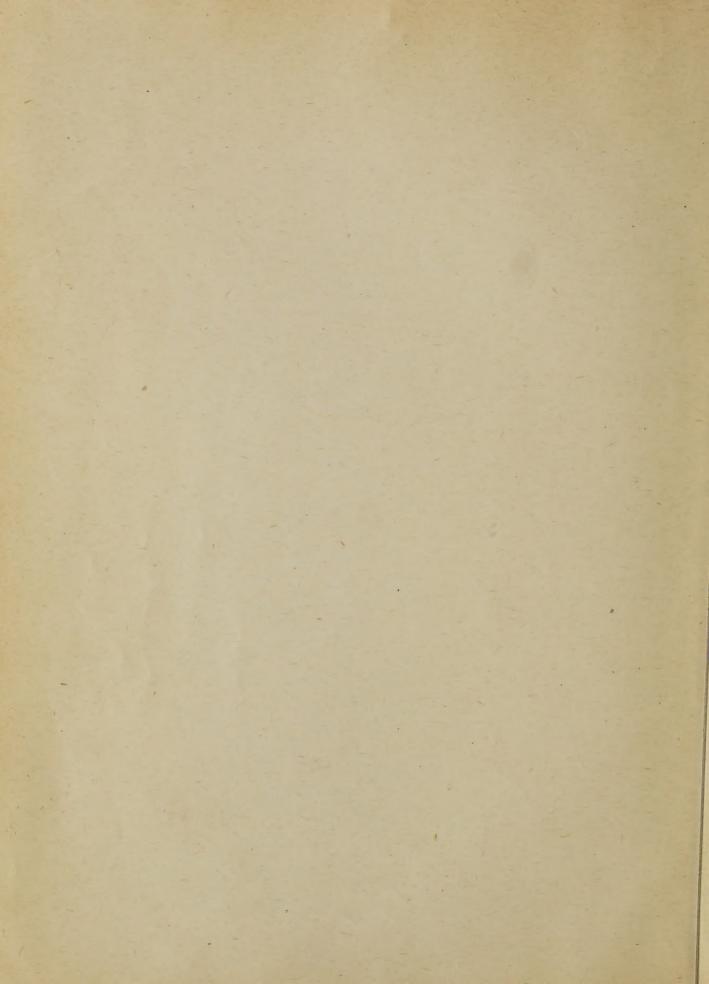




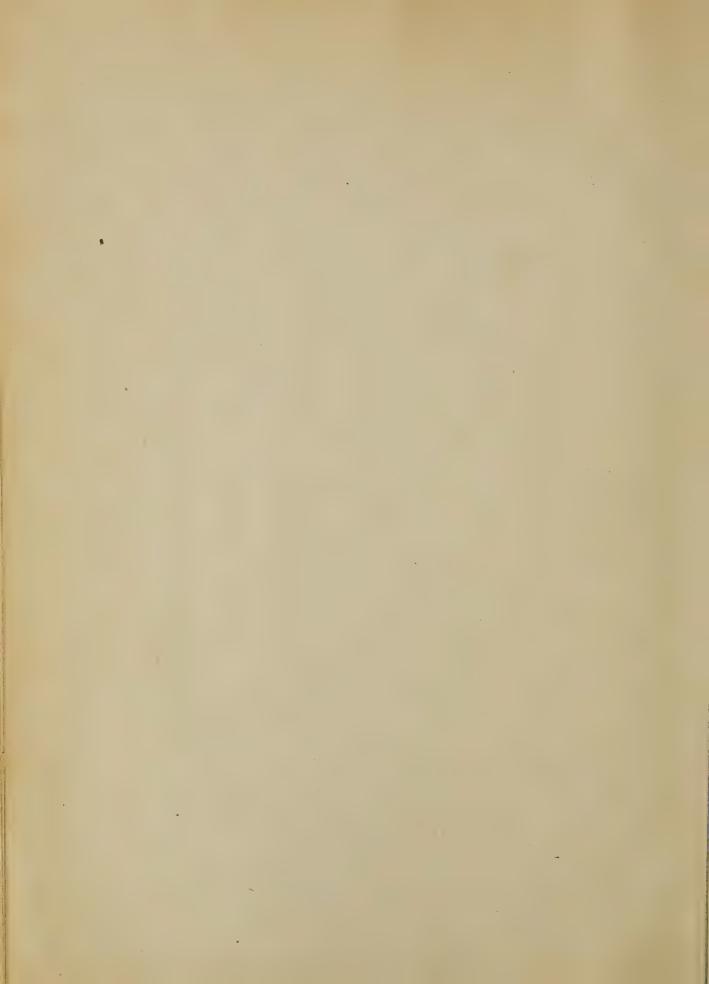




















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RECREATION USES ON THE NATIONAL FORESTS

A Study of their Extent and Character
With a Discussion of Public Policies
and Recommendations as to Methods
of Development and Administration

A Report to the Forester,

Henry S. Graves

by

Frank A. Waugh, Collaborator

United States Department of Agriculture
Forest Service

1917

With a Discussion of Public Parkdike and Resonancedetions as to Methodic of Development wir Administration

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RECREATION USES ON THE NATIONAL FORESTS

Frank A. Waugh

Henry S. Graves, Forester, Forest Service, Department of Agriculture, Washington, D. C.

Sir:

zation I have recently visited many of the National Forests in all parts of the United States and have made a special study of the recreation uses now developing in these areas. The purpose of this study has been to determine as clearly as possible what policies should govern in the development and administration of these recreation uses, in what ways and to what extent the Forest Service might direct this development, and what methods of organization and adminis-

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tration would give the maximum efficiency in this field.

At the outset I will give a brief review of my investigations made on the Forest areas, taking these up in chronological order and making such suggestions and criticiams as occurred to me at the time. Practically all of these suggestions and criticisms were discussed on the ground with the responsible officers of the Service there in charge. Many of the suggestions have already been carried out, as indeed some few of them were adopted in advance of my appearance in the discussion. The instances are few, I believe, in which my recommendations on specific points run counter to the judgment of Forest officers in charge. In general these suggestions are not to be too seriously taken, it being remembered tradica sould give the meximum si-

wels film I deaded out th eit to en of beard to so enclo time, Proceeding all of those supcused on the cut with the rethat all were necessarily based on hasty examinations. These suggestions are to be understood mainly as looking forward toward the wider recommendations covering general policies and administration in the later sections of this report.

<u>District 7</u> <u>Blue Ridge Nountains</u> Natural Bridge Area

April 6 to April 14 I visited the Natural Bridge area of the Blue Ridge Forests in company with Assistant Forester E. A. Sherman. District Forester W. L. Hall, and Forest Examiner J. H. Fahrenbach. We made headquarters at Apple Orchard, and spent most of the time in that neighborhood. I found this section very interesting, the landscape unusually beautiful.

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and the recently constructed Forest Service trails especially satisfactory. They seem to be the best trails I have found anywhere on the forest areas. The following suggestions have already been submitted in writing to District Forester W. L. Hall.

1. Continue the work of trail building. It is to be hoped that the high standard of location and construction already established can be maintained.

ber of points outlooks should be opened from these trails. Wherever possible these outlooks should come at turns of the trail. At these points it would be advisable to provide simple rustic seats.

3. Nark the trails with simple markers giving directions and distances.

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4. Provide special side trails and markers for fine views not on trunk line, e.g., at Apple Orchard Mountain, Apple Orchard Falls, Black Rock, etc.

5. Locate, improve, name and mark especially favorable camp sites, as at Big Spring (Mons).

lishment of permanent camps or resorts like that kept by Mr. Patterson at Apple Orchard. Good camps fitted with tents would probably prove satisfactory for summer months. Camps of this sort are being extensively and successfully used at such widely separated points as Yosemite National Park, Yellowstone National Park, and Lake Champlain, Vermont.

of permanent summer camps or homes
by individuals on special use permit.

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B. Landson towns are a meno

ded mark aspectally favorable ding wites, as at hig Spring (Minu).

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- 8. Publish a cheap map of the section showing trails and points of interest.
- 9. Stock the streams with trout. Protect game of all sorts.

ning" study of Arnold's Valley section based on a proper scheme of economics and social development.

This is a project which I discussed at some length with District Forester Hall, and in which I know he is especially interested.

<u>District 3</u> Bandelier National Monument

Rito de los Frijoles, Bandelier
National Monument, 32 miles northwest of Santa Fe, New Mexico, accompanied by Assistant Forester E. A.
Sherman, and Supervisor Joseph C.
Kircher. The place was revisited

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on August 22. This monument includes extensive cave dwellings. a remarkable old pueblo in horseshoe form, and other interesting Indian relics. It has been the scene of extensive archeological explorations, and has been celebrated in Bandelier's poeticscientific book "The Delight Makers". The surrounding mountains and forests are notable for their picturesque beauty, so that the section is one which may rightfully appeal to a large number of excursionists. I would offer the following suggestions:

l. Possibly a new and better route could be found crossing the Rio Grande near the mouth of the Rito de los Prijoles, and coming up the canyon. This would, however, be difficult, and is not essential. It seems to me very

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desirable however that a preliminary survey of this project should be made in order to determine its feasibility.

will soon need considerable further care for their preservation. Appropriations for this purpose should be forthcoming in the near future. Careful surveys should be made on the ground in order to determine the extent of such work, and to estimate carefully the necessary expenditure.

5. The Forest Service should cooperate with duly accredited archeological societies for the further exploration of the grounds.

4. The relics obtained from these ruins in the progress of exploration, excavation and repair should be housed on the area in an appropriate exhibition room which should be a part of an administration building under the

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further exploration of the grounds.

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care of the custodian.

5. The many important points of interest should be inconspicuously marked. A small guide book whould be published which might be sold to tourists, say at ten cents each. This is rather important.

6. The foot trail along the base of the cliff should be improved, having due care not to disturb present conditions more than absolutely necessary.

7. The facilities now maintained by Judge A. J. Abbott for the entertainment of visitors will soon need to be considerably extended. Some kind of layout for a much larger permanent camp should be made at once.

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District 3

Sante Fe Forest - Pecos Division

On April 27 and 28 I visited the Pecos River Valley in company with Assistant Forester B. A. Sherman, Forest Supervisor Joseph C. Kircher, and Forest Examiner Aldo Leopold. We also examined a number of the small tributary creeks with a view mainly to the inspection of allotments already surveyed for summer homes under term permit. The upper portions of the Pecos Valley visited are narrow, with steep high mountain walls, considerable timber and charming scenery. The Forest Service road from Valley Ranch to Camp Overton Price, now partially constructed, is good.

The summer home allotments now surveyed are in Rito

THE RESERVE AND ADDRESS OF THE PARTY OF THE

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-Solls and remus off ofle sit one becorves son sinon Minsor Creek. Those in the firstand last-named creek valleys are
very attractive. Those in Willow
Creek are made practically unavailable for our purposes by the development of a copper mine at the
mouth of the creek. The space may
prove valuable later as a site for
camps or permanent homes for mine
operatives. Regarding this general territory I would make the
following suggestions:

1. The summer home lots in Rito Espiritu Santo and Winsor Creek are very satisfactory with respect to location and size.

that the location of lots was
made in advance of the location
of a road which is to serve them.
It would be better to reverse the
order, and as far as possible to
make all lots bound upon the road.

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and last-maned cross in his viterie
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code are ache practically unavellaable for our yel cross by the derelopment it a copper nine at the
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in fite Supirite Santo and inner Sound are very solistactory with Examples to location and size.

that the location of location and and and and and and an all of the location is to serve the serve the server of the terms of the terms.

- 3. It is altogether clear that these roads should be located by a landscape architect rather than by a highway engineer.
- 4. Means should be found, if possible, to protect summer homes from grazing cattle without fencing in individual lots.
- 5. Apparently provision will have to be made whereby permittees may keep horses outside their allotments.
- been felt regarding sanitary requirements. In my judgment the use of common pit privies suitably screened and annually moved, will be entirely safe in this area.
- 7. The Forest Service should interest itself actively in game preservation in this district, and especially in the stocking of the streams with

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trout, inasmuch as this territory will always be especially desirable to men who are fond of hunting and fishing.

and logging operations in the immediate vicinity of these summer homes should be conducted with careful regard to the reasonable desires of permittees as well as to the protection and preservation of the more obvious recreational values.

9. A considerable number of home sites are available in addition to those already surveyed in the canyons named, and in others, particularly in Panchuella Creek.

veyed are large, averaging about one acre. It is possible that some subdivision of these lots may

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10. The late elected and

one name. It is possible than

be advisable at a time some distance in the future.

all similar areas, the Forest Service should exercise some supervision as regards the style of
houses and other buildings to be
erected, the plantings or thinnings to be made, and in general
of all so-called improvements by
permittees. The principle to be
kept in view is that the grounds
should always be made attractive,
and that no single permittee should
be allowed to do anything which
would interfere seriously with
the gameral good.

tory already surveyed for summer home sites there exist many fine opportunities for temporary tent camps. Such opportunities should be kept open and may be advertised

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as the local forest officers see fit.

should exercise its best benevolent influence upon owners and occupants of patented land along the Pecos River, with a view to preserving the scenic charm of the vicinity and controlling sanitary conditions.

District 3 Grand Canyon National Monument

May 11 was spent at the Grand Canyon. This period was devoted
wholly to a study of the many complicated and interesting problems
there presented. Various members
of the Forest Service staff were
present and assisted in the explorations and discussions. Assistant
Forester R. A. Sherman, Assistant
District Forester F. W.Pooler,

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Forest Examiner Aldo Leopold, and Deputy Forest Superviser T. Herl Wylder should be especially named.

The Grand Canyon is in effect a great national park. Un this area recreational uses completely overshadow all other possible purposes. The whole situation must be discussed therefore frankly on its merits as a national park problem.

At the outset I would like to emphasize one fundamental principle, viz., the actual trustees of any park (municipal, state or federal) should exercise a positive and controlling influence in the planning and development of the territory. I would place considerable weight upon this issue, both because of its fundamental importance, and because various projects under various branches of the government of the United

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to emphasize one fundamental principie, via. the entirel trustees of
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States have hitherto been managed in an entirely different way. The customary practice has been merely for the government to regulate activities initiated by others. It should be perfectly clear, however, that unless the central authority can supply the initiative whereby is determined the physical plan, the line of growth, the general policies, the form of organization and maintenance as a public park, the whole development will be haphazard, undirected, fortuitous, and the results wholly inferior to what they would be under the opposite policy.

It seems to me that the Grand Canyon at this moment offers a unique and remarkable opportunity to break away from this time-honored method of government management, and to illustrate to a public which

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advantages of a stronger initiative and of a far-sighted constructive plan based upon the best technical information available.

The Technical Problems

The Grand Canyon presents
two problems, fairly distinct, though
physically related. First is the development of an orderly communityon
the canyon rim; second, and much more
serious, is the development of the
national park proper, the major portion of which lies below the rim.

In approaching the solution of these problems we are faced
by two quite extraordinary conditions. These are (a) the dominance
of the Atchison, Topeka & Santa Fe
railroad, and Fred Harvey interests
at the canyon; (b) a general expectation that the Grand Canyon national
monument will presently be trans-

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ferred to the Department of the Interior to be administered as a National Park.

With reference to the first condition, it should be said that the presence of such strong private interests upon the grounds makes it all the more obligatory that the United States government should exercise a strong influence in behalf of the general public. This influence cannot be exercised unless the government is able to formulate perfectly clear cut and definite policies, and unless the government is able further to decide upon a definite working plan for the physical development of the Canyon. Such a problem of physical development must obviously look forward many years toward the future.

The fact should be re-

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and Fred Harvey interests have shown a most praiseworthy breadth of view with reference to the activities of the Government in the development and control of the Grand Canyon. They have repeatedly and expressly emphasized their wish to cooperate with the Forest Service in this work and to accommodate themselves to any plan which the Government may provide. Although these interests are to a considerable degree independent of Government centrol through their ownership of 20 acres of land in a commanding position upon the canyon rim, they have gone so far as to offer the modification of their own plans upon this territory wherever it might be necessary to facilitate developments planned by the Forest Mervice.

With respect to the second condition mentioned, viz. the expec-

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tation that the Grand Canyon will some time be transferred to the hands of the National Park Service, it must be said that there is no telling when this transfer will be made. Under present conditions it would seem that the necessary legislation may be several years in coming. In the meantime, any failure of the Forest Service to develop working plans and policies places the future of the Grand Canyon in serious jeopardy. Even if the transfer should be made at a comparatively early date, it would seem altogether better to turn over a live, going, working project rather than a blank sheet devoid of all plans. All things considered, the conditions are such as to place upon the Forest Service with special urgency the duty of developing at the earliest possible

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named with the next and the work of time, any failure of the Forcet: is , stab vitue viewi invagano a ta turn over a live, going, working considered, the conditions are such with special waternoy the duty of demoment consistent with careful study, the necessary working plans, both for the canyon rim and for the greater territory below the rim.

The Community on the Rim

There has grown up about the Santa Fe railroad station a small but substantial community. This little village continues to grow, and will apparently take on more and more the character of an ordinary town as time goes on. Inasmuch as the major portion of this territory is under the direct control of the Forest Service (the principal exception being the 20 acres of "station grounds" owned by the Santa Fe interests), being managed wholly under permit, the responsibility of the Forest Service for the physical form of the village development is especially

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direct. This area presents a problem in community planning not materially different from problems
existing in any ordinary village.
Such questions have been extensively
studied in the past few years, and
the general methods for meeting
these problems are pretty well understood amongst landscape engineers.

There are three principal parties interested in the development of this community. These are:

- (a) United States Government, now represented by the Forest Service.
- (b) The Atchison, Topeka & Santa Fe railroad with the Fred Harvey interests.
- (c) The outside public. residence and business interests
 not identified with either of the
 other parties mentioned.

Several physical elements

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enter into this problem. The most important ones are (a) water supply; (b) the possibility of other railroad or transportation companies entering the village; (c) the possibility of developing other community units in the vicinity; (d) provision for new commercial interests of considerable scale on other parts of the land; (e) the 20 acre tract of patented land in the hands of the railroad, (f) certain mining claims of a more or less dubious nature.

Water Supply: - An independent and adequate water supply seems essential to the development of a democratic working community at Grand Canyon. There are
several possibilities of supply
from various sources, as from the
San Francisco mountains or from
Bright Angel Creek. There are also

ply: (b) two properties of other califor of when the contract of the village; (c) the seasoning the children called collect committy of developing office collect collect call the vicinity collect in the vicinity; of the face of the description of the land; (c) the tend of the land; (c) the tend of the relicond, (f) the tend of the relicond. (f)

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dependent and adequate value and appropriate of a denocratic vertical conment of a denocratic vertical conment of a denocratic vertical conment of Crand Canyon. There are
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to be considered various ways by which such an enterprise could be financed, either by the federal government, by the municipality, or by a public service corporation under government regulation. It is not possible with information now available to say what method of management would be best for existing conditions, or what source of supply would be most available. I would recommend, however, that a careful study be made at the earliest possible moment by some competent person representing the Federal government, and that a report be made upon the available sources of water, the cost of development, with recommendations for procedure.

Other transportation

facilities: - It is possible of

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build into this community. It is more likely that automobile lines will be developed handling tourists into Grand Canyon from other points along the railroad, e.g., from Flagstaff. These possibilities have to be taken into consideration in the development of any plans.

On the other hand it is altogether possible that other community units may be developed along the rim, either on the south side or the north side of the Canyon, through the establishment of new hotels and resorts, and through the building of other railroads or the entrance of other transportation facilities to other points. These possibilities also have to be kept in view in the preparation of any plans.

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continue these other community units community that the city of the compact of the city of

Other Commercial Inter-

ests: - At the present time the problem of providing for other commercial interests outside of the Atchison, Topeka & Santa Fe railroad and the Fred Harvey corporation seems particularly troublesome. A few permittees have expressed serious dissatisfaction with existing conditions, and do not seem to be pleased with anything which the Forest Service has been able to offer them thus far. Whether their strictures are just or unjust these interests are wholly legitimate. They represent a perfectly natural and reasonable demand which must be met to the fullest extent possible.

altogether it seems essential that a thorough-going study be made and a working plan prepared at the earliest practicable moment

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for the community on the rim. The writer has already made extended studies of these problems and hopes to be able at an early day to submit working plans for this particular territory.

The Park Proper

yon at its best will be only a practical convenience and quite a minor accessory to the park itself. This magnificent territory will include relatively narrow strips of the flat timbered land along the north and south rims of the Canyon, but will consist principally of the territory within the Canyon itself - the country "below the rim." This Canyon is the unique landscape which alone attracts the visitor, and by its extraordinary wonders and beauties justifies the erection and maintenance of a federal

downing the engodist dood rim. The rim the continue of the enterded down of these problems and hapes to the best to an early day to quit to be the particular.

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The village of broad Com-

park. The great and primary problem
lies in the development of this tract
in such a manner as to reveal its
beauties to the fullest possible extent and to the largest possible
number of visitors.

The technical problems of the landscape engineer are easily stated, though their solution may be difficult enough. The principal steps to be taken are as follows:

in its pristine character, - to defend it, both above and below the
rim, from all defacement and from
the intrusion of all exotic features. Such accommedations as will
be required for the cemfort and
safety of visitors, and even the
visitors themselves, will seem to
infringe upon this ideal; but this
infraction is a quite necessary
element in the problem, and moreover

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it is so slight that it may be fairly overlooked. Care must be exercised, of course, to see that this unavoidable intrusion does not work unnecessary injury to the original character of the Canyon.

2. To make the Canyon accessible. It must be accepted as a fundamental principle that the Canyon is to be opened up to the fullest possible extent and to the largest number of visitors.

asy means of descent into the Canyon. Only a trifling fraction of
the park lies above the rim, and
whatever beauty there may be in the
views from the hotel porch and from
the rim drives, they too are a mere
trifle compared with the splendid
panorama spread before the visitor
who explores the endless mesas and
side-canyons below the rim and who

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triffic compared with the splendid
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looks up to the brilliant walls of earth and rock and to the clear blue sky above. There may always be a difference of valuation placed on the views from the rim compared with those from the Canyon below, but to my own taste (and I claim to be a specialist in landscape) the scenery below the rim is worth a hundred times all that can be seen from the rim looking down. Certainly if the park is to be really opened up to visitors it must be possible for visitors to get into it. It appears from the best estimates available that under existing conditions less than five per cent of all visitors to the Grand Canyon do actually descend to the bottom.

4. To provide suitable means of transportation to the points of principal interest within the Canyon and on both rims.

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of principal teterest within the Cen-

5. To determine upon the points of principal interest. This is a matter of considerable delicacy and one on which good taste, experience and patient exploration must combine in order to achieve a satisfactory result. Briefly it may be said that these points chosen for special emphasis must be (a) typical, (b) they must be as diverse as the resources of the Canyon offer, (c) they must be thoroughly worth while in themselves, and (d) they must be presented to the visitor in some logical and convincing order.

tical problems of no mean measure.

such as the location and construction of trails, the building of bridges, the location of camps, the development and conservation of water, the protection of wild life;

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clear problems of so ment manufile.

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- detail on of traits, the building of the finishing of the details, the building of the details of the detai

but these are entirely incidental to the fundamental problems out-

that these problems, so easily stated, are by no means so easily solved.

Rather is this an undertaking of the largest order. Indeed it is the simple truth to say that, in proposing to make a logical working plan for the Grand Canyon which shall tend at once to make the Canyon socially serviceable and to enhance its esthetic effect, we are undertaking the greatest work of landscape engineering ever seriously considered anywhere in the world.

As to Procedure

It seems to me clear beyond all dispute that such a plan
should be formed as soon as possible and with the greatest care to
make sure that it is the best plan

The times problems, an analy observed and that the care is an analy observed.

Another is this obtaindertexing of the care is an analy observed and the care is an analy observed and the care is an incident analy of the care observed and the care observed only that the care observed only analy is one observed only one the care observed only one the care observed only one observed only of the care observed only one observed one observed only one observed one observed only one observed one observe

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humanly available. Such an enterprise as the one at the Grand Canyon should not longer be permitted
to drift along in a purely haphazard aimless manner; nor should it
be expected that a benevolent bureaucratic regulation of concessionaires will supply the necessary initiative and direction for so great
an undertaking.

cussion my recommendation is sufficiently clear. It is that the
best possible plan be made at the
earliest practicable moment; that
to this end the best engineers and
landscape engineers be employed;
and that, at appropriate stages of
development, these plans be subjected to the fullest criticism, both
public and technical.

I assume that the Government of the United States, repre-

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cubical my recommendation is out.

Tielently clear, it is that the free take the fact the fact the fact the fact the fact panellle plan be made at the fact that the fact the best angineers ext that that that, at appropriate be employed:

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development, those plans to employed that to the full pat original that, he fall plant or that that and tendentes to employed.

sented by the Forest Service and its successors at the Grand Canyon, is the only appropriate agency for the initiation of such a plan. It is conceivable, of course, that the permittees might employ the needful designers for the preparation of such a plan; or that the American Institute of Architects or the University Landscape Architects' Society or some other similar body might volunteer the preparation of a plan; and it is possible that a perfectly good working plan might come from such sources; but as a point of public policy it would seem to me wholly discreditable for the Government of the United States thus to depend on volunteer outside sources for its plans and its initiative.

What next? After a satisfactory plan shall have been secured

-tiles worth fines and? Farmore red and tinds only questent through tirees study and fearless criticism and shall have been officially accepted, what steps shall be taken for its realization? The plan certainly is not an end in itself. Users of the Grand Canyon will benefit only by the concrete works accomplished in accordance with the design. What part shall the Federal Government play in carrying out the plan?

ply that, according to my own theory of government, the entire development of this public property
should be made under public direction and at public expense. The
extensive works accomplished in recent times in municipal and state
parks in America have almost without exception conformed to this
principle. Yet I fear that, under
all existing circumstances, it may

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be impossible to adhere strictly
to this sound principle in the development of the park in the Grand
Canyon.

Without entering upon any discussion of the difficulties intervening I will say at once that I would think it better to adopt some reasonable compromises than to delay too long with the development of the property. In short it would seem more sensible to accept the work of reliable concessionaires carried out under strict government supervision and in accordance with an approved plan than to insist on the theoretically better method of direct government construction where such insistence would mean serious delay in opening up the Canyon to the public.

putting this idea into practical terms, and assuming that federal funds will not be promptly

to this sound principle in the deter this sound principle in the development of the perk is the Grend Canyon.

Thout entering upon any disouser of the difficulties in-I deal bone to you III'w I halcovered were facts () -st of mod contrologica sidedensia immgolevab odi dita gasi sei yal of the property. In short it would work of reliable concessionalred -uravos doirte roben tuo boirtan ment supervision and in accordance -mi of med nale beverage as Milw Tetted vilacitatonis ett no sele ense Jasmarevez Jostib to boultom Gometeieni Mose esedw meitowate would meen ser tous delay in open. ing up the dangen to the public. put ting this idea into fadt gammas bas, saus testioner Titue ig se ion fliv about farebet

available for the prosecution of all desirable improvements at the Canyon. I would recommend that the Forest Service or its successors should cooperate freely with responsible permittees in carrying out various items of an approved plan. In particular I should think it practicable to leave to concessionaires the development of hotels, camps, supply stores, souvenir shops and similar establishments catering commercially to the needs of visitors. The building of trails presents a much more difficult problem, as all trails, wherever and whenever built, should be open to the public practically without charge. However if opportunity should offer for the building of new trails in accordance with an adopted plan and under terms fully safeguarding the public interests.

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financing the work from other than federal funds, it would seem wise to give favorable consideration to such offers.

In my view the construction of some safe and easy means of transportation from the rim to the interior of the Canyon is sine qua non to all plans of real park development. How to finance the construction and operation of such a public utility presents still another question. Certainly it would be theoretically the most desirable way to have such a utility built and operated by the park management itself. Yet as a practical matter I do not hesitate to urge that these facilities be provided at the earliest possible moment; and that, should private funds offer for the purpose, the opportunity be accepted by the park management. I would

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distinctly stipulate that any permits for such construction and operation should include the following requirements:

- l. Strict conformity to park plans in location and construction.
- 2. Conformity to government requirements as regards style
 of construction, materials, design
 of terminals, provision of safety
 devices, etc. etc.
- 3. Government regulation of operation, tariffs, etc.
- 4. Provision for taking over the entire property by the

District 3

Walnut Canyon National Monument

This territory was visited on May 14th in company with District Forester E. A. Sherman, Supervisor John Guthrie, Forest Examiner THE THE EAST SAME DESIRED AND THE PARTY OF THE COLUMN TO A SAME OF THE PARTY OF THE

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triet Ferenter . . Sherman Supervisor John Suthrie, Ferent Manuiner Aldo Leopold, and Assistant District
Forester F. W. Pooler. The territory proved to be unexpectedly interesting, and the Indian relics
very good. While this park may
never attain a great national reputation, its preservation as a national monument is distinctly worth while.

It would seem that certain repairs on the trail, and further protection of the ruins are desirable, but I understand that they are already provided for in a service project, upon which the money has become available July 1, 1917.

The time may come, perhaps
in the near future, when this tract
will be so extensively used as a
public park that more elaborate service equipment will be required.

For example, it may be necessary
within the next few years to provide special parking space for

Porcetor F. W. Hooler. The territory errored to be interpreciably intory eretime, and the Indian relies
very good. This this per may
never attain a great national resitation, its preservation as a national monument in distinctly worth chile.

repairs on the train, and further protection of the tuins are desironle, but I understand that they
ere already provided for in a service project, upon which they remey
has become available July 1, 1917.

in the near fature, when this treet will be said as a said it park that more elaborate auravide auravide equipment will be required.

perhaps build a new ranger station,
with space for the accommodation of
visitors, to put up public sanitaries, provide public camp grounds,
and possibly to supply other accessories of the usual park layout for
the entertainment of visitors. I
would specifically recommend that,
as soon as such a demand has become
manifest, the entire tract be given
careful study by a competent landscape engineer, and a working plan
provided in advance of any important
alterations or expensive improvements.

Flagstaff our party visited the Experiment Station at Fort Valley, and also investigated the water development now taking place at Crater Lake, north of Fort Valley. The work which we saw at both these places was very interesting, but no recommendations on my part seem necessary.

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Plagaters our party visited the Dr. Stade partment Station at Fort Volley, and stor tavent feation at Fort Volley. The work said.

The work of Fort Volley. The work saids as any set both times place and vork saids.

Interesting, but no recommendations on my part seen necessary.

District 3 Roosevelt Lake Area

On May 15 and 16 I visited Roosevelt and the surrounding territory in company with Assistant Forester B. A. Sherman, Assistant District Forester F. W. Pooler, Supervisor W. H. Goddard, and Forest Examiner Ward Shephard. At this point we also met Mr. E. O. McCormick, vice-president of the Southern Pacific Railroad, and Mr. Mark Daniels of San Francisco, architect and landscape engineer, advising the Southern Pacific interests regarding their proposed work at Roosevelt. We held several conferences and had an opportunity to look over the plans now in hand by the Southern Pacific Railroad Company for building a hotel on the shore of the lake under Forest Service permit.

bestern I at has as you as oftend but become out has disverself onid impicione, seriode .A . C webs. ening Werd Shapherd. At this point vice-president of the Southern Par siste Bail ond, and Mr. Mark Daniels has jostkiere , optomett and to edt printrhe, teenigee egacobasi -brance electedat of these areatmos sers wook of gitned seems me had been the plane new in head by the Southern Pacific Bailroad Company for building

observations I would recommend that the Forest Service should encourage the Southern Pacific Railroad to go ahead with this resort plan, subject to the approval of the Forest Service at all stages. The fact that the Railroad Company have employed a competent landscape engineer and architect to look after their development would indicate their intention and ability to do the work in a satisfactory manner.

About the Dam there is growing up
a small village. In fact the buildings now occupied jointly by the
Forest Service and by the Reclamation Service (Department of the Interior) in themselves constitute a
village locally known as the "Government Grounds."

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About the Dem there is graning to a should be suithamen for rice and by the Realesstion derrice and by the Realesstion derrice (Department of the Isterior) in themselves constitute a
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able that such a community growing up under government direction and patronage should have the best possible development. It ought to grow in conformity to a well-ordered plan. The scattered, haphazard, disorderly form of a mining camp is neither practically satisfactory nor intellectually creditable to a community of this sort.

I therefore recommend and urge that every effort be made to provide at the earliest possible moment a satisfactory community plan for this territory. The problem here is technically much like that at the present village of Grand Canyon, though the physical and social elements are quite dissimilar. No satisfactory plan can be made except by a competent architect or landscape engineer after thorough

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study of the situation on the grounds.

Tonto National Monument: -At this point we made a brief examination of the cliff dwellings in the Tonto National Monument. These are distinctly interesting and will be especially valuable on account of their proximity to the proposed resort development at the Roosevelt Dam. The ruins should be restored and protected, and some further trails should be built into the area. The Forest Service trail recently constructed is satisfactory, and, I understand, was provided at a very low expense. Relatively small expenditures are needed in this territory at the present time, but these valuable Indian relics should not be wasted for the lack of such small sums of money. Effective preservation of

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the prehistoric relics should obviously precede any further opening of the territory to visitors by means of easy trails.

District 5 Arroyo Seco, Angeles Forest

This canyon was visited on May 22 in company with Assistant Forester B. A. Sherman and Assistant District Forester L. A. Barrett. Here we find a narrow canyon with few natural advantages for the development of summer homes, aside from the extraordinary demand caused by the propinquity of Los Angeles and Pasadena. The citizens of these towns however seem so anxious to find a retreat in the mountains anywhere that they have taken up every available inch of the space. The use here in summer home development is very intensive. Indeed it seems

the probability of the territory to the could obstonely proceds any further could
ing of the territory to visitors
by recome of easy trails.

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that the limited area is already
too crowded, and that no further
permits of this character can well
be granted. Still the service
rendered here seems on the whole
very satisfactory. Little more
remains to be done on the part of
the Forest Service to bring it to
its highest point of usefulness
for the summer permittees.

precautions in the canyon seems somewhat alarming. Nevertheless I understand that the case is thoroughly in hand; that the permittees themselves, largely citizens of Pasadena, have formed an association for the protection of their common interests; that the question of protection of water supply has been specially considered and satisfactorily settled; and that the Forest Service

then the limited area is circally top of the committee of this character are for the committee of this that courseless are remained for second on the cartice remy sections to be denie on the part of the limite to be denie on the part of the limite to be denie of the part of the limite to be denie of the part of the limited to be denie of the limited to be denied t

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is absolved from all further responsibility on this account. I

trust this is the fact, but I have
no doubt that the forest officers
in charge will make every effort
within their power further to insure the protection of the permittees in the Canyon, and of the
citizens of Pasadena who use water
from that watershed.

<u>District 5</u> Canyon Santa Anita, Angeles Forest

This territory was visited on May 23d in company with Assistant Forester E. A. Sherman, and Assistant District Forester Barrett. We also met the ranger in charge, Mr. Zachau, and had his kindly assistance in looking over this tract.

Santa Anita canyon is considerably larger than Arroyo Seco, carries more water, and is much better appendiction of the cont. I serior respendict on this act of the fact that that the forest off there
as doubt that the forest officers
in charge will again every offert
which the present further to inthese in the Canyon, and of the
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met the remper in charge, Mr. Caches,
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furnished with trees. On this account it is a distinctly more attractive locality than the one examined the day previous. The canyon now contains 196 summer homes under permit, and five public resorts. It seems possible that a few more summer home sites might be developed through the expenditure of considerable effort; but on the whole the territory is already fully occupied. Here, as in Arroyo Seco, it seems as though there is some danger of crowding, and of reproducing those conditions of congestion which the permittees especially desire to escape in coming to the canyon.

The Forest Service has built, with some outside cooperation, a fine trail from a point near the village of Sierra Madre into the canyon. This trail is decidedly

"In other Elevations a mi to imper tractive locality than the one enen chiden ovil has dimme us bee sorts. It seems possible that a developed break the expenditure of congiderable effort; but on the whole the territory is circolly fully ecoupied. Hore, es in Arrayo al erest desort as smeet it, sees ered of a snotting of those of the can section the permittees erpecially desire to escape in com-

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a fine trail from a point near the

outsides of Sterra Madre into the

canyon. This trail is decidedly

picturesque, developing many fine landscape outlooks. It is moreover, a practical convenience of the first order, since over it all the materials for building and supplies for living must be carried into the canyon. The trail is also used extensively by persons going through to points farther in the forest both for business and pleasure. I am told that as many as 200 or 300 visitors a day frequently pass over this trail, and the congestion has been so great that it has been necessary to prepare special rules for the movement of pack trains on the trail.

A new trail in the bed of the canyon on easy grade has been surveyed, and has been recommended by the local ranger, who estimates that it will cost \$2,500 to cover the necessary distance of about two and one-half miles. I understood 4.

leng adapt outlineder. It is moretist, surely out to sometownous Apolitoning a living much be couried into the conyou. . The trail is also need one for business and pleasure. I on told erotisty 000 to 000 pe your se fadt a day frequently mass ever this trail. fact on most and not termes out her that it has been medesary to pro-Incheven eds not soler falsom ouse · though and no notage hoog. To to bed out at float was a vec the conyon on easy grade has been dobrosses and has been recovered by the loos ranger, the estimates owt twode to commists granecous add bootstahms I another thed-one bee

further that about \$2,000 had already been subscribed by the resident permittees in cooperation for the building of this proposed trail. It seems to me that under these conditions the work ought to be carried out at an early date.

The scenic values on the existing trail and in the canyon could be considerably enhanced by the careful work of a landscape engineer and by some moderate reconstruction. Such work may be taken up at any time when the necessary funds and talent are evailable.

would seem desirable to have some further development of community cooperation within the canyon. In my judgment, something should be done in the physical equipment of the area to help toward this end.

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edition in cooperation for the building of this proposed trail. It seems
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existing trail and in the conyon or the conyon could be considered by co

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vice. Perhaps by cooperation with an organization of the permittees a community house could be built, perhaps an outdoor theater, perhaps a branch library could be established, perhaps a central camp fire could be provided at which meetings could be arranged weekly or more frequently. These suggestions merely indicate the direction in which it seems to me improvement could be taken up and directed by the Forest Service itself.

District 5 Lagunas Hountain, Cleveland Forest

Our visit to this territory occupied the time from May 26
to May 31 inclusive. Our Forest Service party was made up of Assistant
Forester B. A. Sherman, Assistant District Forester L. A. Barrett, Forest
Examiner W.H.Friedhof, and the writer.

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organization of the paintitees a conhouse could be built, perhaps
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Forester V. A. Showman, Assistant Dinteriot Forester L. A. Sarrett, Forest
triot Forester L. A. Sarrett, Forest

We spent a very pleasant five

days in the ranger station camp

and made an extended examination

of the territory here which it is

proposed to use a summer home area

under special use permit. It is

expected that the tract will be

particularly useful to the citi
zens of the Imperial Valley on the

east, and of San Diego on the west.

sents a fine tract of land of 1000 acres or more, very wall adapted to the purpose in view. The average elevation is 5,500 feet, without any great variation. A few small peaks exceed 6,000 feet, but on the whole the tract is reasonably level, is nicely timbered, Jeffrey pine and black oak predominating, and appears to have an adequate water supply. At several points there are attractive small streams.

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The area under ship preseries of the tract of lead of 1000
series of more, very vall adapted to
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of the tract do. 500 feet, but on the
the tract de researchy level,
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to have an adecuate water supply.

There appears to exist a very definite and strenuous demand for the summer home permits which the Forest Service proposes to issue. The existence of such a definite demand to some extent clarifies the study of the problem. After examination of the tract I have the following suggestions to make:

- road connecting with the state highway at a point approximately seven miles south of the tract in question seems to be very satisfactory, as is also the proposed location of the main access road on the tracty itself.
- 2. The main road should be built now approximately on the location of the old Morris road.

 Other roads, such as the Rim Drive, may be built later as needed, and as funds are available.
 - 3. I should also recommend

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be built now approximately on the location of the old Horris read, other read, and the lin lives.

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strongly that a plan should be held in view of carrying the main road eventually through the entire area and out to the north or west by another route, making it possible to pass through the tract without coming out at the point of entrance.

4. Spur roads or side loops may be built, probably on grades not exceeding six per cent, into the side canyons and other areas as the settlements develop, and as the roads may be required.

tions should be reserved into which wagon and automobile roads are not built. I have in mind especially the lower course of the Escondido canyon, and the Agua Dulce, though the same suggestion may apply with even greater force to other tracts after the situation has developed further. These territories may be

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loops may be built, probably on areas not exceeding six yor cent, dredes not exceeding six yor cent, areas and the cide conyons and other exceeding six develop, and as the rectionants develop, and as the rectionants develop, and chould be received into this built. I have in mind expectally built. I have in mind expectally the lower course of the Recondidation can exceed the Recondidation can exceed the Recondidation of the Secondidation of the Se

made accessible by trail open to foot passengers and horses. Certainly the added privacy gained by keeping out wagons and automobiles would be distinctly desirable to some permittees.

a service nature, but intended chiefly for sight-seeing should be developed as soon as practicable to such points as Wooded Hill, Monument Peak, Desert View, Noble Canyon, and other points of interest. Some of these routes will eventually be developed into automobile roads; others will always remain foot paths.

7. The sub-division of lots, already studied on the ground, especially by Mr. W. H. Friedhof, seems to be generally satisfactory, both as to size and arrangement. No doubt the expenditure of additional time and study on the grounds might

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to some points on Veeded Hill, Nanument reak, Docert View, Mohio Canyea, and other points of interest.
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into, already studies on the grown, appearably by Mr. W. E. Ericdust, common to be concretly entistated tory. To be concentrated and the expenditure of additional time expenditure of additional films and study on the grounds.

secure additional perfection of detail; and considering the extended use to which this territory will probably be put, and the long time which the original plan will remain in service, it seems fair to recommend that the fullest possible attention be given to the original layout now.

- a. Considerable areas

 remain to be laid out and de
 veloped outside of the blocks al
 ready surveyed. These may be laid

 out a block at a time as the demand

 arises.
- 9. An adequate civic center seems to me essential to a plan of this kind. This civic center should include practically all of the public buildings, or those of community interest. Some of the buildings which apparently will be needed in this territory are (a) a

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The service, it seems fall to record fall to record that the full cast to the street to the

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ranger's office, (b) a ranger's
residence, (c) a post office, (d)
a store, (e) a hotel, possibly two
hotels, (f) a community building
suitable for public meetings of
various sorts, (g) an outdoor
campfire, (h) an outdoor theater,
(i) a schoolhouse with playground,
(j) possibly a church. No doubt
some of these items may be combined into a single building.

it will be desirable to develop
some other enterprises, especially
a public campground with its necessary campfires, latrines, etc.

of this civic center is a matter of the greatest importance and was carefully considered upon the ground. There can be no question but that the most desirable location is at the mouth of Hermosa ravine on a

residence. (c) a post office. (d)
residence. (c) a post office. (d)
store. (e) a sett of office.

Refer. (f) a semmently baliding
suitable for public meeting off
various morts. (a) as outdoor chester.
(b) a schoolbouse with playeround.
(i) possibly a shurch. No doubt.
(i) possibly a shurch. No doubt.
(i) possibly a shurch. No doubt.
(ii) possibly a shurch. No doubt.
(iii) possibly a shurch. No doubt.

it will be desirable to dercical and some constant on other contemptions with its necesarion of the necesary complies, latrings, etc.

il. The proper location
of this civic conter is a matter
of the greatest importance and was
operatively considered upon the ground.
There can be no question but that
the most desirable location is at

somewhat clouded title. This location, however, is so much superior to any one which we were able
to find upon land of unquestioned
Forest Service title that I deem it
well worth while to delay for a
time any developments along this
line, and in the meanwhile to make
every effort possible to secure a
clear title to the tract of land
in question.

that as soon as the question of title can be cleared on the Hermosa ravine tract, a more detailed topographical survey of this area will be prepared, and that the writer will then undertake to develop a plan for the proposed civic center.

and social character of the community

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AND RESIDENCE OF CHILDREN AND

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which it is proposed to establish here under Forest Service control, it seems highly desirable that some definite socializing influences should be set in motion, and it is hardly too much to expect that the Forest Service should take an active part in this necessary work. At least the Forest Service might provide the physical equipment for social activities. It can, for example, find a satisfactory site for a schoolhouse, and assist in the building of the school. Probably it can assist in a similar way toward the building of a community house, the provision of outdoor campfires, theaters, baseball diamonds, and other equipment designed to bring the residents of this territory into acquaintance.

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mutual confidence and cooperation.

It is a common experience to find,
in summer colonies of this kind,
an aggregation of families who
have no interests in common, who
do not meet freely together, and
who therefore remain in a community
of suspicion and selfishness.

physical equipment, as suggested in the preceding paragraph, should lead to a better social acquaintance, and such social acquaintance should in turn lead early to some form of organized local self-government. In my judgment the officers of the Forest Service should hold themselves ready to assist in every manner toward such a consummation.

an adequate supply of water available in the territory, providing it is properly developed and care-

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vice should certainly take the initiative in this matter. It should,
if possible, develop and retain the
water supply just as it is now building the Service road. At the very
least, it must control the development of water by strict regulations,
and not allow any portion of the
supply to pass into private centrol.

timber cutting allowed on the area except individual trees here and there, principally dead and diseased specimens, duly selected and approved by the forest officer in charge.

17. Apparently it will be necessary to fence back the cattle now running on this range. I understand that the district office has entered into some sort of an agreement with the cattle owners operating in this district for the con-

The district will reprint the limit of the l

timber outting pliesed on the area and except tedividual trace here and there there, primatesly does out the and end and operated and operated the formal officer in charge.

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parently no very clear idea is
formed as to the character of this
drift fence or its location. To my
mind it seems probable that something more extensive and substantial than a mere drift fence will
be required, and quite likely that
the Forest Service will be compelled
to undertake its construction.

Yosemite National Park

National Park is not under the management of the Forest Service, it was deemed advisable to visit it, inasmuch as we were in the neighborhood. Mr. C. H. Squire of the Washington office Forest Service accompanied me for a three days' visit, from June 7 to 9.

Al and the alternation of the best of the control o

Although the total the forest to the start the

I was greatly impressed with the magnificent scenery of the Yosemite canyon. I found the floor of the canyon unexpectedly large and convenient for the accommodation of visitors. The administration appears to be excellent. The camps provided for visitors are clean and comfortable, the Desmond camps particularly so. It seems to me that they supply a model which should be carefully studied by all those who are interested in the administration of camps designed to care for any considerable number of transient visitors.

Perhaps the point which most impresses the landscape engineer in visiting this park, is the apparent lack of any constructive working plan. This defect seems to me very serious. The

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most impressed the lead one concineer in violates this park, in the appearant look of any constructive verking plan. This defect seems to me very nertons. The present circulation of traffic is aimless and poor, and there appears to be no plan for future development along this line. The policy of building large tourist hotels within the canyon also seems questionable.

also visited the Mariposa Grove of Big Trees on June 10. We found that a considerable mileage of good roads has been built in the area under the direction of the National Park Service. The location of these roads seems to have been in the hands of an engineer lacking the training of a landscape architect. There appears to be no working plan for the further development of the park.

It would seem to me that improvement cuttings in the

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park forest would be a great advantage to the forest itself, and to the whole territory, considered as park scenery.

District 5

Huntington Lake and Vicinity

amined on June 11 and 12 in company with Mr. C. H. Squire of the
Washington office, Forest Supervisor M. A. Benedict, Assistant
District Forester Headley, and
Ranger Barker. The following matters came to my special attention:

1. The road from Cascada (railroad station) to Huntington Lake is soon to be constructed. I understand, through cooperation of the Forest Service and Fresno County. This road is very much needed. I understand that the money appropriated will be used

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ready established and now in use. On this right-of-way the grade is very steep, running from 18 to 20 per cent, and sometimes higher. It seems unfortunate that a better grade cannot be secured, but apparently a re-location is impracticable on account of cost. Under any circumstances, it seems probable that considerable sums will have to be spent from year to year in improvements and repairs on a road so much used and of such severe gradient.

2. We made an examination of the special use sites on the north side of Huntington Lake. A few cabins have already been built on permit areas, and many more permits will doubtless be in hand as soon as the road is completed and as soon as the

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present engineering works on the dams are out of the way. The territory is unusually fine for such summer homes. The land itself is clean and well-drained, with a good slope, it is well furnished with splendid trees. the lake in the foreground is attractive in every particular, while in the distance there are visible several snow-clad peaks of the higher Sierras. Under these circumstances it would be desirable for the Forest Service to give special attention to the careful development of this territory.

3. The best portion of this territory has already been surveyed and subdivided into summer home permit sites in accordance with existing instructions of the Forest Service. Neverthe-

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less, it appears to me that the layout is defective, and that a considerably better arrangement of the space could be secured by sufficient study. This is a matter to which I shall refer in a subsequent section of the report, and no further discussion need be given to it now. I would recommend, however, that the issuance of permits on this territory be suspended for the present, and that the question be carefully considered whether a re-survey is not worth while.

of this tract the city of Fresno has secured a permit upon 20 acres for a municipal playground. As yet the tract is undeveloped and unused, but I understand that as soon as road improvements are made the city of Fresno will enter

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upon its permit and begin the active use of the playground. It is certainly in the interest of the Forest Service to make this enterprise successful, and I would suggest that possibly the Service might assist the city of Fresno in the proper planning of the grounds, and possibly in certain points of construction and development.

of the lake, the Freeno state
normal school has a permit involving a considerable area, upon
which several buildings have now
been erected for the accommodation
of a permanent summer school. At
the present time this entire tract
has the appearance of a freshly
established lumber camp. In other
words, it is raw and unattractive
with a distinctly disorderly aspect.

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have a well-matured plan for the future development of their grounds, there is nothing on the surface now to suggest that fact. It seems to me that the Forest Service should give every encouragement to the normal school authorities for the early preparation of a well-considered and orderly working plan.

has installed a water supply now serving the state normal school grounds and some of the special use permit area. This water supply can be extended to additional areas. This improvement is fundamental, has been cheaply and effectively made, and is altogether commendable.

7. At the present time quite extensive developments on permits are being made by the

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Southern California Edison Power Company. Existing conditions about these works are exceedingly rough, but the grounds will doubtless clear up gradually as the work proceeds toward completion in the next few years. It seems to be very desirable that plans should be made at once by some competent landscape engineer for the contemplated improvements in order that all this work may proceed economically toward a satisfactory finished result. sumably the landscape engineering service for such work should be employed by the permittees, but I would specifically recommend that the Forest Service urge the permittees to adopt such a course.

8. The village of Cascada exists wholly on Forest factory finished result. Eres

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Service permits. It began as a rough construction camp, and still has very largely the air of a frontier lumber town. It seems to be changing, however, somewhat rapidly from this temporary character to a condition of being a permanent summer resort. For this new purpose the entire character of the place ought to be changed, and though the area is guite restricted, and the conditions difficult, I believe that some substantial improvement in the plan can be made through careful study. I would therefore heartily recommend that the village of Cascada be given early and careful study in view of these conditions.

9. The Methodist local conference has secured a permit for a summer chautauqua to be located just below the village of Cascada. It is expected that this will become a per-

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manent and extensive institution
handling a population of 1900 or
more annually. Obviously this colony should be developed according
to some plan. In my judgment it
would be wise for the Forest Service to insist upon such a plan
as prerequisite to the permit.

Possibly the Forest Service can
cooperate with the association
in securing such a plan.

road between Cascada and Fresno
in the Sierra National Forest area,
are many superb views. These might
be greatly improved by judicious
cuttings and by small changes in
the roadway. Probably the necessary improvements can be secured
through action of the local supervisor.

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District 5

Los Angeles Municipal Playground

This very interesting development on the forest area was visited from June 15 to June 19, inclusive, in company with Mr. C.H. Squire of the Washington office. Through the kindness of Mr. C. B. Raitt we were allowed to occupy one of the municipal bungalows, and to participate in all the regular activities of the camp. We greatly appreciated the opportunity and enjoyed the experience, and came away with the feeling that the enterprise is successful and socially sound. We believe that the plan ought to be rapidly extended to the service of many other municipalities, and that while many cities will find their best available opportunities outside the

ook pulibring for your plan vinited from June 13 to June 19. the two times of the stantons southe of the Vachington office. the side of the promise of the fire swoimpand leginium and to can the plan ought to be replay oratten will find that best avails

National Forests, there will be a considerable number of cities which can best be served by land now included within the forest boundaries.

This is a strictly municipal enterprise, financed and conducted by the city of los Angeles through its efficient playground commission. The equipment consists of 61 bungalows furnished with beds. a central blubhouse, a kitchen and outdoor dining room, water supply, sewer system, concrete swimming pool, etc. The method of operation provides mainly for vacations in periods of two weeks for citizens of Los Angeles. I may say that the ground plan of this particular camp is surprisingly good. Indeed it is almost beyond criticism from the standpoint of the landscape engineer.

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Inasmuch as several other cities are contemplating the establishment of similar municipal playgrounds on the forest area, it might be worth while for the Forest Service to publish a brief bulletin making suggestions regarding the physical layout, equipment and management of such municipal camps. Certainly this information, in clear-cut, workable form, ought to be available immediately from some source. I am sure the Porest Service will feel like giving every assistance in its power toward the proper development of these municipal camps.

<u>District 6</u> Oregon Caves National Monument

On June 23 I made a visit to the Oregon Caves in company with Mr. C. H. Squire of the Washington office, District Forester C. J. Buck.

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and Supervisor N. F. Ezcduff. We were conducted through the caves by forest guard Rowley, whose enthusiasm, kindness, and practical assistance should be especially commended. He appears to be a somewhat unusual man, and especially adepted to the service he is now rendering.

The caves are large, intricate and curious. Apparently
they are much enjoyed by some of
the visitors, though I must confess
to a distinctly qualified enjoyment
of them myself.

caves are not of special national importance. Their interest is largely local. It would be contrary to my judgment for the Forest Service to spend any considerable sums of money in the development of this particular natural curiosity. It would seem proper for local talent

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and local funds to be used in the development of the caves, of course always under direction and permit of the Forest Service.

The Forest Service might well improve the trails, particularly the one leading to the west side of the mountain. The trails to the cave lead through a most attractive country, especially the one toward the northeast. This trail is already well constructed, but might be improved in minor details, especially in opening out certain fine views which would be made available by quite minor cuttings. A few delightful campgrounds have already been established along these trails which should prove a great satisfaction to visitors.

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District 6

Hagle Creek Camp Grounds

Eagle Creek Camp grounds, reached by the Columbia Gorge Park Division of the Oregon National Forest, over the Columbia Highway from Portland, Oregon. Eagle Creek Canyon has become a public park under highly intensive use. It is a remarkably fine piece of scenery, remarkably well situated to serve a large population. Here the Forest Service encounters a purely park problem in a fairly intensive form.

the development of this campground consists in the building of a public sanitary connected by sever with a good outfall, the introduction of a safe and convenient water supply, the building of numerous campfires.

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providing a considerable number of tables for visitors, the development of a large parking space for automobiles, and the building of a very attractive trail up the canyon. All of this work has been exceedingly well done and is beyond criticism, with the exception of the location of the public sanitary.

which I have to make, all of which were discussed with Forest officers on the ground, are se follows:

- automobiles will need to be enlarged.
- 2. The public comfort station, rather unfortunately located, must be masked by heavy plantings.
 Specific suggestions to this end were made on the ground.
- ranger station and office should be built on the front of the ground

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established with and to be enlarged.

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near the highway.

4. The camping spaces for automobiles should be enlarged, by preference placing them back from the creek, the creek being reserved for picnic grounds. Apparently there is some high land farther back from the creek toward the eastward, which, with some expense, can be developed for automobile camping.

5. The front of the grounds bordering on the highway will require some further cleaning up. This work is progressing as rapidly as opportunity offers.

along Ragle Creek has already been mentioned. The scenery can be somewhat improved in this territory by opening out a few of the more attractive views. At a number of places rustic seats should be provided, and probably a small public comfort sta-

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beindering on the highway will require come from the work to propose of an expirity as expired to that the contract of the con

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tion will be needed at some point three to five miles from the mouth of the canyon.

7. I understand that an application is pending for a resort permit, and that the applicants wish to build a hotel, preferably on the south side of the highway, and at the very front of the Forest Service campground. In my own judgment it is not necessary to grant any permit for a resort or hotel of any kind on these grounds, there being several resorts of this nature within easy reach of the canyon. It seems to merather that the canyon should be kept as wild as possible, and should have a character entirely different from that of the ordinary road resort found along the public highway.

If a permit is granted, I would urgently recommend that the

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location given should be on the north side of the highway, and outside the immediate environs of the picnic grounds. I feel sure that a resort placed on the south side of the highway and within the picnic grounds would soon monopolize a large part of this territory, would throw the Forest Service largely into the shadow, and would alter the entire character of this delightful picnic place.

District 6

Denny Creek Camp Ground, Snoqualmie Forest

this tract in company with Mr. C.H. Squire, Assistant District Forester C.J.Buck, Supervisor Stanton G. Smith, and others. The tract lies about 50 miles east of Seattle on the so-called Sunset highway, near the main pass over the Coast range.

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The ground at present is rough, and the territory decidedly wild. The scenery is good, and there is some good forest in the immediate neighborhood. Denny Creek is a fine stream with a promise of good fishing. There is ample opportunity for the development of a fine publie camp ground facing on the publie highway and fronting on both sides of Denny Creek. There is also an opportunity for the location of a rather indefinite number of lots for summer homes, most of which would lie further up the areek.

rawness of the territory, rather extensive practical improvements will be needed to make the ground comfortable for campers. Most of these are provided for by appropriations already available and the work

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was under way at the time of our visit. The one phase of landscape engineering principally involved has reference to the subdivision of the home sites. This
problem was discussed on the ground
with Supervisor Smith, and will be
referred to again in more general
terms in a later part of this report.

District 6

Rocky Run Campgrounds, Wenatchee Forest

This territory was visited on June 29. The campground faces on Lake Kecheelus. The scenery is unusually fine. There is a good stream, a good forest, and an attractive lake. The campground lies contiguous to the scenic Sunset Highway, and though barely opened at the time of our visit.

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was already in use. It seems quite certain that this campground and other smaller ones near it will find extensive use in the near future.

There are also a few home sites to be let under permit and at least two resert sites already located.

The problems here are very simple and the forest officers in charge seem to have them thoroughly well in hand. No special recommendations need to be made.

District 6

Chelan National Forest

on July 1 and 2 I had the pleasure of visiting this section in company with several officers of the Forest Service. The scenery is superb, and I have no hesitation in offering the opinion

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that this will prove to be one of
the major recreation projects on
the Forest area. Indeed these advantages are so conspicuous that
they have led to a movement to have
the territory set aside as a National Park.

of Lake Chelan, and in the contiguous mountains, many sites suitable for summer homes, for public resorts, public campgrounds, and all the other developments of summer recreation.

Eventually the best of these sites will all be needed and they should therefore be carefully conserved.

been surveyed for permits at several places along the shores of Lake Chelan, especially at the mouths of the several tributary creeks. These surveys seem to me to be not quite satisfactory. I would make two

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suggestions: (a) that the lots are
too small, usually running about a
quarter of an acre each; (b) that
the general plan of survey has been
characterized too much by the checkerboard system in vogue in the towns
and cities of the plains. In land
of this character it would be much
better to follow more closely the
natural topography. Inasmuch as
both these matters are to be discussed in subsequent reports, they
may be passed over for the present.

trict office, District 6, has already recommended that the Secretary of Agriculture classify this area as chiefly valuable for public recreation and direct that it be administered with that use in view, after the manner of procedure used in the Columbia Gorge Park Division of the Oregon National Forest. I believe

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tract office the Correlaty of the Advertity that are selected as a selected and a selected are selected as a selec

that the District Office has prepared a general plan upon which
such a departmental order could be
based. This proposition seems to
me wise, and meets my hearty approval.

Should such a step be taken, it would seem to me that the Forest Service would thereunder obligate itself to develop the territory properly as a public park. The very first and most necessary step toward such a development would be in the preparation of a satisfactory working plan. The preparation of such a working plan would present landscape engineering problems of the most fascinating character. There would be an opportunity here to do something of distinct credit to the Forest Bervice, and of large value to the public in general.

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District 1 Seeley Lake, Missoula Forest

This wild and beautiful lake is reached by a good automobile road of about sixty miles out of Missoula. The surroundings are attractive and the fishing and hunting are good. One tier of summer home sites has already been surveyed around the lake, and the majority of these sites have been taken under permit. It seems likely that the demand will continue and that more lots will be needed. There is ample opportunity for the location of other summer homes back from the immediate shore of the lake, especielly on the western side. In the location of such lots, a much less regular arrangement should be followed. The lots should be studied individually and located with considerable care.

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the outlet of the lake is an unusually fine site now reserved for a public hotel or resort. Inasmuch as the Chicago, Milwaukee, and St. Paul Railway is now building a line touching this particular tract, it would seem the part of wisdom to give that corporation a preference in using this hotel site.

one or two public campgrounds will be needed along the
shore of the lake and in the immediate vicinity. Some territory has already been set aside for this purpose
but remains to be developed.

I would recommend further
that the Forest Service should make
special effort to preserve the wild
geme and fish in and about Seeley
Lake. This territory at present is
especially attractive on account of
the hunting and fishing, and it would

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seem wise to conserve and intensify this natural attraction.

District 1 Beaverhead Forest

On July 7 a trip was taken through the Ritter Root and Beaverhead Forests in company with Assistant District Forester Major F. A. Fenn, and Mr. C. H. Squire of the Washington office. On this route an examination was made of the Big Hole battle ground, especially of the tract now reserved as a national monument. This spot has local historic interest, and seems to appeal strongly to the imagination of the old settlers. It is, however, nearly devoid of scenic beauty, or other recreational value, except that the old settlers hold an annual reunion here on the anniversary of the battle.

Tileston has provided at each pass

through the Pitter Root and Agment bood Peresta in company with Assist bane Destrice Moranton Major D. A. rearest tends water, except that the

developed in the district office for the improvement of these grounds. The plans were checked over at the time of our visit, and seemed to be entirely satisfactory.

In my judgment it would be unwise for the Forest Service to spend any large sums of money in the development of this particular tract.

In passing from the Bitter Root
valley over the Great Divide into
the Big Hole country, and on to the
eastward, one travels over the socalled "Park-to-Park" highway. A
considerable portion of this highway was designed and built by Forest Service engineers and lies within
the National Forest area. It forms a
delightful scenic road which in all
probability will attract large numbers

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of tourists in future years. On this account I would recommend liberal treatment of the route. both as regards the improvement of the engineering work on the highway, and in the development of the landscape features. In particular, it would seem wise at once to develop good public campgrounds at several points along this highway, to provide the necessary safeguards for water, the desirable campfire places (especially as the timber here needs to be carefully protected from fire), the necessary latrines, etc. This work could be easily carried out at small expense under direction of the local supervisor.

District 4

On July 9 Mr. C. H. Squire and myself visited the district office in Ogden and consulted with

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District Forester L. F. Kneipp and with Assistant District Forester G. N. Woods. While this district has some very interesting special use developments under way in the Sawtooth Forest and elsewhere, it was decided at the consultation to be unlikely that any of them would offer any new problems in landscape engineering not already covered by our investigations. It was determined therefore to proceed at once to District 2.

District 2 Denver Foothills Park

The city of Denver has developed some very interesting parks and automobile roads in the foothills to the westward of the city.

Some of these tracts adjoin the Pike National Forest, and some of the automobile routes extend into the

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Forest. It has been locally desired to develop these park facilities farther from the city and farther into the Forest, and especially to reach the summit of Mt. Evans and the high mountains in that vicinity with practicable automobile roads. This project has been given preliminary study by Mr. Frederick L. Clasted, landscape architect, of Brookline.

Mass., and the citizens of Denver now have the benefit of his report for guidance.

connoisance of the Foothill territory in company with Mr. C. H.

Squire of the Washington office,
and District Forester Smith Riley.

The scenery is picturesque and
striking, and the roads already
constructed are fairly satisfactory.

The general plan of developing the

rivers. It has been levelly 800-

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Squire of the Vachington affice,
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roads and park areas appears sound. and it seems to me that the recommendations of Mr. Olmsted form a sufficient guide for the present. I judge that this entire plan will develop slowly however, as the city of Denver may find funds to devote to this purpose. I would recommend that the Forest Service, and especially the District Office in District 2, should keep in touch with the developments and should cooperate at all points where practicable. In the meantime the work of making roads and trails in the Forest itself may be influenced to some extent by the plans of the City of Denver. Any such modification of the Forest Service plans which can practicably be made in order to bring them into greater service for the people of Denver and the public in general, is wholly to be commended.

. Brieds presente annes de la fina chara . According and with after the tol time

District 7 White Mountain Forest

The time from August 4

to 11 was spent in the White Wountein forests in company with Assistent Forester E. A. Sherman, Assistant District Forester H. O. Stabler,
Supervisor J. J. Fritz and Forest
Examiner F. D. Fletcher.

Copp farm where a number of summer home sites have been surveyed. The area is conveniently located, is attractive, and the plan of subdivision is unusually good. The plans for leasing this territory seem entirely appropriate to conditions existing.

On August 6 we stopped at Crawford's Notch and examined the tracts (Crawford purchase and Eretton Woods Company's tract) on which

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condemnation proceedings for acquisition are pending. At the special request of District Forester W. L. Hall, I held a conference with Mr. William A. Barron, of the Crawford Notch Hotel Company, in order to familiarize myself with his point of view relative to future uses of these lands.

the Swift River valley and discussed certain special uses there under consideration; on the 9th we examined an active timber sale near Twin Mountain, and on the 10th visited Russell Pond. Various suggestions made to Supervisor Fritz at the time concerned minor matters and need not be repeated here.

With respect to the White Mountain Forest in general it is plain that landscape and recreation values occupy a relatively high

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England population the conservation of the scenery certainly
stands shead of timber production.
though the best informed citizens
appear to realize that the two
lines of service are not incompatible. Certainly one of the
outstanding problems of Forest
Service administration in this
forest will always lie in the
judicious balancing of these two
utilities.

this forest it would seem obligatory that the purposes of watershed protection, streamflow regulation and timber production should not be neglected. While the landscape value is unquestionably very great and while the protection of this scenery is of the utmost importance, yet the preservation of the The part of the construction of the construction.

The blue of the particular to the land of the fact of

landscape and the practical creation of a national park cannot be made the prime purpose of the forest administration without evasion of the law and stultification of the Forest Service.

Nor in my judgment is any such course necessary. Certainly the protection of stream flow is wholly compatible with the preservation of the forests and the conservation of the landscape. The only doubt seems to attach to the work of timber cutting. Yet I feel sure that, with reasonable care, practically the entire product of merchantable timber can be harvested from these forests with negligible injury to the landscape. Up to the present time the public fear on this point has been, in my opinion, unwarrented. While the District Office

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has wisely pursued a conservative policy thus far with respect to timber sales, and while the education of public sentiment is to be held always in view. I do not hesitate to advise a freer use of timber resources in the future. The selection method of outting which I understand will be largely used will not produce serious breaks in the forest cover. Even strip cutting cautiously conducted by narrow strips need not offend any but the most pernickety taste. It is to be expected furthermore that methods of operation will improve as time goes on, and such improvements will permit freer cuttings. In the forests of the Old World the precedent has been well established for the liberal utilization of timber on forests where park use is also recognized as of first importance.

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My general recommendations for the White Mountain forest are as follows:

- 1. That a cautious and conservative policy be followed with respect to recreational developments, and especially where term permits for summer homes, resorts and hotels are concerned.
- policy be pursued with reference to any municipal (social) uses which may make application, and that the Forest Service take such steps as it conveniently can to promote an interest in municipal enterprises, such, for example, as the Los Angeles Playground camp.
- 3. That the Forest Service proceed with such future timber sales as may seem wise from an
 economic and silvicultural standpoint, giving reasonable regard to
 the protection of the landscape,

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but without feeling that positive timber values must generally be sacrificed to questionable esthetic values.

where timber cuttings are made on areas intersected by public roads a border of trees be left uncut along these roads. This border should be of varying width, usually running from 100 to 500 feet. Even in these borders mild selection cuttings can sometimes be made.

5. That these timber borders along roads be given appropriate parkwise treatment. In particular I would suggest -

(a) That vistas be opened through these borders wherever good exterior views are available.

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- (b) That due caution be exercised
 to keep an open view
 of the road for the
 protection of automobilists.
- (c) That a rigid
 wall of trees with
 sides straightly
 paralleling the roadway be not formed.
 but that as such irregularity and informality as possible
 be secured.
- (d) That considerable care be used to keep a pleasing border of native shrubbery between the roadway and the tree belt.
- 6. That public camp grounds be developed at suitable points.

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(This point has been especially discussed with Superviser Fritz).

7. That scenic trails and automobile roads be built to the better points of beauty on the forest. This recommendation should be followed slowly and cautiously, and all routes given careful study before the beginning of construction. Such roads and trails may be built by private persons or organizations, but the Forest Service should make sure that the locations are quite satisfactory. In general all locations for scenic roads should be studied by some competent landscape architect.

8. That certain areas of paramount scenic value be specifically reserved. Upon these areas timber cutting may be wholly interdicted, as well as any other

Clebrows and and relacing their

of paramount sounds value ha apaw off tonly reserved. Upon these erose timbér sutting may be abolly interdicted, on well as any other uses which might infringe upon their scenic value. I especially recommend that appropriate steps be taken at an early date to determine what areas should be so reserved, and that upon this determination prompt action be taken.

tion of policy, with special reference to park and recreation interests, in the White Mountain
Forest, be held open for further study. It appears to me that the situation has not yet fully developed. It would be unfortunate to establish a fixed policy in these matters with important factors changing or uncertain.

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General Policies

National Forests have been extensively used for purposes of recreation. Thousands of persons have gone to them for rest, for enjoyment, and for the recuperation of health. The forests have inevitably included within their boundaries much of the most satisfying landscape of the country, and this fair scenery is recognized as having a large human value above the mere economic return from timber, water power or grazing.

Indeed the forests - and
especially state and national forests have always included within their
utilities many recreation features.
The earliest known forests were set
aside as game preserves and became
hunting grounds of royalty. In more
recent times the famous forests of

Valiance Forgate have been enterdively used for purposes of recipies

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come to them for root, for salelymost, and for the recuperation of

health. The forests have inevitaboulth. The forests have inevitably included within their boundcries much of the neat enticipies

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central Europe have been extensively used for many sorts of recreation. The pressure of such interests has been so great as to obscure and almost to obliterate any distinction between forests and parks. Indeed it is only fair to say that recreation, the conservation of health and the preservation of scenery are traditional utilities from the very beginnings in forest policy.

In the National Forests

of the United States these activities were at first ignored. Later
they were tolerated and to some extent assisted. It would be absolutely impossible to prevent them.

It now seems clear that they should
be frankly recognized, apprecised at
their just value, and given protection and assistance according to
their worth in fair comparison with

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other forest utilities.

I understand that my personal assignment in the Forest Service was intended primarily to define more clearly the position of these special utilities in a general scheme of forest policy. This is certainly the central point round which my studies have revolved . I have tried to view these utilities without the prejudice of my profession in their just relation to other primary purposes of the National Forests. I count it a great good fortune that my visits to the Forests have brought me into contact with the men who have the actual experience of local administration and who know existing conditions and demands. Many of these men are fortified by years of practical experience and armed with the keenest enthusiasm. Association

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with his wild monitor posture that the disc To the later out winesing out's

with such men is admirably calculated to correct the defects natural to my academic and professional view.

at the same time I must urge that there is a substantial advantage in my detached position. If my view is inexperienced it is also unprejudiced. And the fact that my professional training gives me a point of view different from that of the usual forest officer is of real value, since a new point of view is certain to reveal new data, unsuspected conditions and fresh opportunities for improvement.

purpose throughout this study to consider recreational and esthetic values, not as matters apart, but in their due relation to the well-established and unquestioned

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while the present report deals almost exclusively with questions of scenery and of recreation, such treatment is necessary to the nature of my assignment and is not due to my wilful neglect of timber production, grazing or watershed protection.

Extent of Recreational Use

in the Office of Lands to secure
figures showing the number of persons using the Forests for purposes
of recreation. This effort has not
been very vigorously pressed and the
figures secured are fragmentary and
doubtful, being in many cases certainly incomplete and below the
facts. Still they may be reproduced
here as a basis for the personal estimate which I will presently offer.

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BSTIMATED NUMBER RECREATION VISITORS ON PORESTS SUBMER 1916

Dis- trict	:Resi- :dence :Permit- :tees	:Campers	and Fisher-	Auto- :mobile :Passen- : gers	4 444 6 4	Fedes- trians	Total
1	524	: 22,068	36,684	66,884	14,325:	11,704	152,129
2	3,239	: 19,040	61,173	301,860	220,672:	61,113:	667.097
3	597	6,840	11,945	67,350	38,580:	1,490	126,802
4	354	29,422	35,186	100,082	21,102	6,242	192,388
5	6,150	266,425	84,275	214,100	55,075	84,600	710,625
6	853	36,993	42,590	244,795	29,653	7,674	362,558
7	178	7,867	6,765	98,085	150,135:	13,490	273,520
	11,896	388,655	278,558	1,090,156	589,542	186,313	8.485.NI

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Care has been taken to avoid dupli-Note: cation in the above totals. Each person has been classed according to the principal use made of the Forest. For example: A fisherman may have traveled in an automobile or an automobilist may have stopped to fish, but in no case has he been counted in more than one column. Estimated average time spent by visitors in Districts 1, 4, and 6 is 2 days, 14 hours. This period, it is believed, will closely approximate the length of time so spent for all Districts.

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Mention of a few specific cases will give a better notion of the real situation. In the Canyon Santa Anita, Angeles Porest, for example, there are nearly 200 summer homes. Allowing a family of five to each home we would have a population of 1000. Moreover there are three small public resorts (embryonic hotels) in the canyon accommodating a total of fifty to a hundred persons additional. There is also a considerable number of visitors constantly passing through the canyon on foot and on horseback. It seems conservative to estimate the use of this little section of the forest at 1200 persons daily for six months of the year.

Bagle Greek Campground on the Oregon Forest is a small tract, but one which, from the nature of its location, receives rather in-

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the summer the attendance often reaches 2,500 to 3,000 persons. On week days the attendance is smaller, but considerable. It seems safe to estimate that the annual attendance is not less than 100,000 persons making an average stay of five hours each.

New Hampshire are intensively used for purposes of recreation by the crowding populations of our large eastern industrial cities. This use covers both winter and summer, though the number of visitors is greater in summer. Fishing, camping, tramping, automobile, and gossiping on the hotel porch are the most popular recreations; but whatever specific forms the recreation may take, its ultimate

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covered mountains. When we consider the endless summer procession of automobiles on every
White Mountain highway; when we remember that one single hotel accepts more than 1000 guests at a time; when we think of the thousands of smaller hotels and boarding houses in and around the mountains, it is a ready guess that the number of visitors must pass the half-million mark annually.

I have named three tracts and estimated the number of visitors, as follows:

Canyon Santa Anita,

Angeles Forest, 1200 persons
daily for six months, which,
counting at ten hours a day would
amount to 2,190,000 hours of recreation.

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The NATION AND LINKS

Bagle Greek Camp Ground, Oregon Forest, 100,000 persons a year with an average stay of five hours each, amounting to 500,000 recreation hours.

White Mountain Forest of New Hampshire with a half million visitors annually, for whom an average stop of one day each would be a very low guess, would give 5,000,000 hours of the most wholesome and upbuilding recreation imaginable.

we have an estimated use on these three tracts of 7,690,000 recreation hours annually. And while I have chosen these three cases from the best known recreational resorts on the National Forests, it is to be observed that two of them are very small and restricted areas, while the White Mountain Forest is

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still one of the smallest of the National Forests. If we think of the vast areas which our estimate must cover, of the fine and famous scenery included, of the automobile roads traversing many of these Forests, of the hotels along their borders, of the unsurpassed hunting and fishing, we must conclude that the total number of visitors is very considerable. The lowest estimate which I can make after much study is that the visitors annually number not less than 3,000,000 with an average stop of ten hours each. I believe that the former figure is reasonably near the fact; the estimate of ten hours for each visitor is merely a vague guess, but is conservative. The estimate of the forest officers places this factor at fourteen and a half hours. I

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am confident that we are well within the truth when we say that the annual recreational product of the Mational Forests amounts to thirty million recreation hours.

Valuation of Recreation

when we attempt to place a monetary valuation on this body of recreation we are upon still more uncertain ground. Still such an estimate is not wholly impossible, and the formation of concrete standards in this field is so sorely needed that we may well hazard the attempt.

Mr. George A. Farker,
Superintendent of Parks of Hartford, Connecticut, who is generally
regarded as the highest authority
in such matters, has been in the
habit of speaking, among his professional brethren, of a valuation
of two cents per recreation bour.

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He hastens to say, however, that this rate represents only the normal cost of park recreation and bears no necessary relation to the value, which must certainly be much higher.

It is fair to judge the value of recreation by what it costs in the open market. Everywhere recreation is on sale, and vast quantities of it are bought daily by eager consumers. This recreation varies greatly in value and enormously in cost. The nabob with his touring limousine and hired chauffeur often pays \$20 an hour, while the tramp who lays a nickel on the bar may enjoy, for that small price, an hour's visit with his cronies in the establishment.

We are very near to scientific exactness when we say

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that the cheapest forms of recreation purchasable in the markets cost five cents an hour. These amusements would include the bar room, the cheapest movies and their like. The first attempt to name these amusements will show that they are not wholesome, not truly recreating, not socially defensible.

flection along this line will convince us that ten cents an hour represents the minimum cost of wholesome recreation when bought in the regular markets.

Here we might include the ten cent movies, the cheapest seats at the theater or the concert, etc.

This is the minimum cost of wholesome recreation.

The average cost is much higher.

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It seems self-evident. further, that ardinary recreation on the Forest is at least as valuable as the cheapest wholesome commercialized entertainment; so that if we adopt as our average rate for the valuation of forest recreation the minimum cost of decent commercial recreation, viz. ten cents an hour, we are obviously offering an underestimate. Yet if we adopt this minimum rate instead of a fair average rate, the annual recreational product of the National Forests assums a monetary value of \$3,000.000. And once more we may say that this is based, not on averages, but on minimum figures.

I ought to say that on this point I have consulted Mr. Frederick Maw Clasted whose author-ity in such matters we all recog-

enter on land to al termination.

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nize. Mr. Clasted frankly does not place much reliance on this method of estimating recreation values. He suggests however that a much better result could be reached by determining the cost of forest recreation in its own character, for example by ascertaining the amounts paid by individuals for hunting and fishing in private preserves and sportsmen's clubs. The briefest consideration of these forms of recreation, however, will show a cost factor very much higher than that already given - at least one dollar an hour being the lowest possible guess. It seems to me unfair and dangerous to apply any such factor to the estimate in hand; and I am compelled once more to fall back on my statement that a rate of ten cents an hour for

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that elegate city of the least one toller on hour being the least to as of the soing to apply any and can to the section to the section of the least that the toller to the least that

forest recreation represents, not an average value, but a manifest minimum.

At the present time the actual returns from the National Forests for special uses - chiefly recreational - are over \$100,000 a year. Yet recreation use, like watershed protection, does not express itself in terms of forest income. In other words the cash return from special uses bears no necessary relation to the value of the recreation, considered in terms of human health, personal welfare or social efficiency.

it seems quite clear that the recreational product of the National
Forests constitutes a public utility
of very great value. Plainly it becomes necessary, in any wise consideration of public policy, to

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conserve the esthetic and recreational values in the Forests and to provide for their wider and wiser utilization.

POREST SERVICE AND PARK SERVICE

large question of public policy
on which we cannot honestly remain
uninformed, indifferent or inactive.
Congress has established both National Forests and National Parks
and has placed the care of these two
allotments in the hands of different
organizations located in different
departments of the public service.
Every study of the situation shows
striking similarities in the work
of the two services. Indeed at many
points their activities are identical.

It is perfectly plain that there should be a clear understanding and a considerable degree of coopera-

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between the two services. This necessity has so much impressed some observers as to lead to the suggestion that the two services be brought into the same government department, or even that they be consolidated into one organic unit. Certainly under existing conditions the officers of the Forest Service should make every effort to reach a sympathetic understanding with the officers of the National Park Service and should cooperate with them in every possible way for the protection of all the property committed to the care of either and with the purpose of rendering the widest possible service to the public, remembering that amongst ordinary lay citizens the distinctions between Forest Service and Park Service are less than imaginary.

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Some students of public policy who have given much thought to these matters have felt it wise to emphasize the difference between the Forest Service and the National Park Service. To me this seems false emphasis. It throws the stress away from points of vital likeness to differences which are largely accidental or artificial. The truth is that the distinctions between National Forests and National Parks or between the Forest Service and the Park Service are almost wholly administrative. They do not greatly concern the aggregate public interest.

the National Forests

As a matter of fact many
of the areas now administered by
the Forest Service are public parks,
nothing less nor more. The Grand
Canyon - a somewhat anomalous case -

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is everywhere recognized as a great national park without reference to its administrative connection. Practically all of the national monuments under administration of the Forest Service are purely park reserves. Every public use which they might conceivably meet is a park use and not a forest use, in the limited meaning of that term. Hundreds of restricted areas within the Forests. not segregated by legislative act, are nevertheless definitely assigned by the authority of Forest Service officers to exclusive recreational uses, - as for example, Eagle Creek Camp Ground, on the Columbia Highway, the Los Angeles Playground in the Angeles Forest. and the miles on miles of canyon and lake-front surveyed for summer home permits.

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ment of the facts is made by saying that recreation stands on a
per with other major uses of the
forest areas, and is to be managed
on its merits precisely like the
others. These major uses are

Timber production Grazing Watershed protection Recreation

And from the figures given in an earlier section of this report it would appear that recreation is by no means a negligible member of this group.

spect to handling these several
utilities on the forest areas has
never been obscure. Where two or
more of these main uses can be
served at the same time on the same
area they are carried forward side
by side, sometimes in actual cooperation. Whenever two of these uses

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determines which is likely to render the greater public service.

This then becomes the paramount use on the area in question. Other uses are secondary; and, if they interfere seriously with the primary use, they are altogether excluded from the area. This policy is so obvious, simple and practical that it needs no defence.

meed not be changed in the slightest when recreation comes to be recognized in the list of major utilities. It is, in fact, the policy already and inevitably adopted. On the principal areas of the National Porests recreation is an incidental use; on some it is a paramount use; on a few it becomes the exclusive use.

This policy is so broad and so fundamentally sound that it

describes which is likely to render the gracier public corvice.

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It is, in fact, the policy elvendy and conditional institution of the policy elvendy.

This policy is so brook it and that it send that it

is quite capable of covering the National Parks as well as the National Forests. If all the Parks and all the Forests were combined tomorrow under one management this policy would supply a perfectly safe guide for their administration. There may be valid reasons for emphasizing a distinction between National Parks and National Forests, but this is not one of them.

ter as it affects the internal workings of the Forest Service alone
some emphasis should be placed on
the fact, frequently not recognized,
that the recreation use on forest
lands only rarely interferes with
other uses. In general the natural
development and protection of the
forests operates directly to enhance the recreation values. On

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come emphasis should be placed on
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the other hand recreation, except where it becomes intensive at certain points, seldom infringes upon other uses of the forest. The development of this fact has been. in some cases, rather surprising. For example it has been found. contrary to common expectation. that the presence of campers and summer home permittees in considerable numbers, instead of increasing the fire risk has actually assisted positively in fire protection. Any general argument therefore which alleges a conflict between the recreation uses and other forest utilities starts from a premise which is not true.

Forest Service Recreation Policy

Under these circumstances the course to be pursued by the Forest Service is as plain as the main

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comer into the family of forest
utilities is to be treated precisely like the older members of
the group. It is to be accepted
as a permanent utility and as one
of high and unquestionable value.
It may even be expected that this
particular utility will grow much
more rapidly than her older sisters
within the next few years. Such
growth is not to be discouraged
but is to be wisely directed. The
following steps seem necessary:

- and should develop a clearly understood policy with reference to it.
- 2. The Forest Service should attempt to forecast the public needs in recreation on the Forests and should shape its plans to

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anticipate these needs to the ut-

- broad questions of public policy
 the Forest Service should call to
 its aid to the fullest extent possible those men who, by breadth of
 training and by experience in such
 matters, are best able to advise
 in this specialized field.
- 4. In carrying these policies into practical effect many technical problems are confronted, mainly of a landscape engineering nature. These problems should be handled by men technical problems of silviculture, grazing and mining are now handled.
- 5. In general, and most important of all, the Forest Service should anticipate the specific problems of recreation, and

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should meet each problem with definite plans, practicable, workable, well-studied, technically and artistically sound. In all these developments the Forest Service should lead, not follow its permittees and guests; it should supply initiative rather than restraint; it should operate through vital growing plans rather than through dead official measures of regulation.

Puture Park Status

The development of exclusive park uses on considerable
areas of the National Forests
promptly raises the question whether
these areas should not be transferred
from the Forest Service to the administration of the National Park
Service. The presumption at the outset certainly would be in favor of

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such a step.

The first and most practical objection to this proposition lies in the fact that the areas of exclusive recreation use are (with the exception of the Grand Canyon) relatively small, so that their administration by the Forest Service along with the larger contiguous forests is simpler and more economical than it would be under another bureau not already operating in the same territory. Furthermore it is difficult, whatever the theoretical arguments, to show any practical advantage to be gained by such a transfer.

gument - viz. that park utilities should be administered by the Park Service and the park lands therefore segregated from the forest lands, largely loses its force the

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ceivable arrangement, very extensive recreational uses will always exist in the forests, and that it is wholly impracticable and unnecessary to interdict such uses. The segregation of park uses from other forest utilities, except upon a few special areas, is practically impossible and administratively absurd.

ever, has more than an academic interest to the Forest Service. The popular imagination is just at present secthing with the idea of National Parks. The very great value of these reserves is just beginning to be appreciated; and in particular the advertising value is being seized upon by many interested persons, corporations and municipalities. There is an ill-considered and unseemly campaign developing with the

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present section, with the idea of
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value of these tenerres is just hachaning to be operateded; and in
particular the advantising rains is

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purpose of securing new National Parks in all sorts of places. The very large majority of these projects are plainly based on no other intention than to secure local advertising. In hardly a single case has the need of the nation as a whole been considered for a moment. In short the projects out forward are not for National Parks at all, but for purely local parks. Some of these schemes would be advisable as state parks, some as city parks, while some could hardly be justified as public parks on any grounds.

The disquieting feature
of this propaganda, viewed from
the standpoint of the Forest Service, is that a good many of the
tracts of land thus proposed for
"national" parks now belong within

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National Panks at Mil, bist fun pubely local parks, done of
these schemes would be advisable
as tinte parks, some so bity

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of these tracts to another bureau would in some cases seriously break in upon present units and disturb present plans of management. If the practice should become prevalent of cutting heedlessly into the Forest areas wherever some local interest might need the advertising advantage of a "national park" the result would be distinctly damaging to our whole National Forest enterprise.

open to the Forest Service in the premises. First consideration must be given to the needs and desires of the nation as a whole. If it appears that certain tracts now included in the National Forests will give their greatest public service when administered as National Parks, then the Forest Service will

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unquestionably facilitate to the utmost the delimitation of such areas and their transfer to another administration. The Grand Canyon may be cited as a territory recommended by the Forest Service for transfer to the Park Service.

In order to establish the desirability of such a transfer it would be necessary to show:

of such a size, location and character as to form a practical administrative unit when segregated; for, even though the use be exclusively recreational, yet if the administration can still be best conducted by the Forest Service there is no offsetting advantage in transferring the tract from one government bureau to another with a loss of administrative efficiency.

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2. That the scenic or recreation features of the tract are of genuinely national importance.

as the geyser basin of Yellowstone National Park, the glaciers of Glacier National Park or the cataract of Niagara Falls.

3. That such features are unique and not to be preserved here or elsewhere without the intervention of public authority.

4. That the natural landscape features or recreational advantages constitute the paramount
utility, other utilities being distinctly subordinate.

In the meantime, and in part to neutralize the excesses of the current agitation for "national parks" which are not genuinely in the national interest, it seems proper and wise for the Forest Service to take certain positive steps, as follows:

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- fine a constructive and vigorous
 policy in respect to the development
 and administration of recreation
 values within the National Forests.
 as recommended in an earlier section
 of this report.
- 2. To acquaint the public widely with these policies and with existing conditions of recreation within the Forests.
- 3. By public proclamation to dedicate to exclusive recreation service certain areas of special scenic beauty and recreational value.
- 4. To secure from Congress a general act empowering the President to set aside by proclamation certain areas within the National Forests to be dedicated to paramount recreational uses, without change of administration. Such proclamations should describe boundaries and specify uses.

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5. To secure the necessary authority and the even more
necessary appropriations for the
proper development of such areas,
as the public interest may require.

Working Organization

In the foregoing sections of this report I have made three recommendations which should now be followed to their natural conclusion. These are - (a) that the Forest Service work out and adopt broad policies with reference to the development of the recreation utilities in the National Forests, (b) that appropriate administrative methods be discovered and adopted for these recreational developments. (c) that all recreation areas be planned by the best available talent, that is by men especially trained as landscape architects, and that such

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plans in every case precede the expenditure of funds for recreational improvements. We must now consider the means whereby these recommendations may be carried into effect.

matter, that of policies, a good deal has already been done. Many of the men in the Forest Service have been thinking seriously about the questions for several years. Their observations and conclusions are of the utmost value. It is hoped, too, that the present report and the study out of which it has grown, will assist somewhat toward the clarification of ideas, and in outlining workable policies.

I would recommend further that, as soon as practicable, an official statement of policies be drawn up in the Forest Service.

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that this be submitted first to the criticism of men within the Service and to the Secretary of Agriculture, secondly to a considerable number of men on the outside, men who have had experience in large affairs and especially in public recreation. men whose criticism would be valuable. Most of these men. if asked directly for their criticisms, would give valuable aid. Such organizations as the National Art Commission, the American Institute of Architects, the American Scoiety of Landscape Architects and the University Landscape Architects' Society should be consulted. Lastly it might be worth while to submit this statement of policies to the public through the press with the two-fold expectation of secur-

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ing further helpful criticism and of acquainting the public with Forest Service policies.

Such an undertaking as this would require to be pressed rather sharply in order to put it through within a reasonable time and to prevent its becoming dissipated into a running fire of aimless talk. But the effort to state clearly the policies of the Forest Service in a manner to bear all this criticism will certainly result in a better definition of purposes in hundreds of minds where now there is only a vague belief that perhaps the Forest Service ought to do something - nobody knows what - nor very much cares.

Administration

The development of the necessary administrative methods

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is possibly the easiest step in the program. The field administration of the Forest Service. while reasonably touched with the usual human imperfections, is notably courageous and efficient. These men in the field have taken hold of the new recreation problems with enthusiasm. Yet there is an occasional note of doubt, almost of dismay. Many of these men feel rather keenly that this new work is outside their training. One of the best supervisors whom I met in my entire rounds of the Forests said desperately. "There are so d ---- many of these new things coming along that we have no time left for forestry!"

Constant improvement in administration of recreation will naturally come with experience.

Nuch more can be gained by vigorous

edical recomment of the control of the con-

le en emociation and analy of there ended and the end of the end o

action in the right direction.

Toward this end I would make the following recommendations:

- tee be formed within the Forest
 Service to make a continuous
 study of all questions connected
 with recreational uses on the
 Forests, such committee to suggest improvements in administrative methods whenever possible.
- 2. That this committee be authorized and instructed to make special studies and recommendations with respect to the classification of lands for recreational uses.
- 3. That from time to time the Forest Service secure the advice of park superintendents and playground supervisors who have been notably successful in such matters. This help can

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be easily secured without great expense. I believe, if the men are approached in the proper manner.

landscape engineering, in park administration or in playground supervision be found and put in charge of those areas where park and recreation uses become paramount or exclusive. There is no more propriety in leaving a forest park in charge of a ranger whose training has been on the cattle range than there would be in placing a park superintendent in charge of a purely grazing forest.

that to the utmost these projects be left in the hands of competent and tactful men and the restrictive regulations be

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Rept down to the absolute minimum. It is one of the deadliest dangers of all government administration that it shall express itself in a maze of rules, regulations, restrictions and red-tape. The great substitute for rules is men. Let us have men of ideas, enthusiasm and tact and we can live on a very low minimum of rules.

Physical Plans

physical plans than would appear at first sight. "Well begun is half done," and the working plan should be the beginning of every land development for recreation. Unless the ground is conveniently planned and equipped the activities upon it will always be crippled. Where a new development is begun without a well-considered plan mistakes are

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easy - almost inevitable, - and such mistakes are expensive.

It seems most probable that for the next few years the development of home-site areas. playgrounds and special park tracts, and even of town-sites upon the National Forests, will be extensive and important. To prepare suitable plans for these projects, practical, technically sound and artistically effective. will require the services of one or more first rate landscape engineers. After considering carefully how this service could be made available at the least expense and with the greatest efficiency I would recommend:

nan technically trained in landscape architecture and with as much practical experience as enous of toward be doned found

possible be attached to the general staff, and that his entire time be devoted to work of this nature.

2. That other men of similar training and experience be employed in the different Districts, at least one man in each District, to whom shall be assigned the making of such surveys and plans as may be required, subject to such direction and assistance from the chief landscape engineer as may seem advisable.

This step would be much less difficult and expensive than might at first appear. The district landscape engineer would not necessarily occupy his full time on purely landscape designing. He would almost certainly be a surveyor and a draftsman, and as every district has extended

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work in these lines, he could be used to good advantage whenever his services were not required in strictly professional lines. Or the district landscape engineer might be the regular superintendent (supervisor or forest officer in charge) of some important recreation development within the district.

now employs civil engineers,
mining-engineers, grazing
specialists, entomologists, lawyers and men specially trained
in a great variety of other lines.
A branch of work so new and so important as recreation and involving so many technical details can
not, compatibly with the traditions
of the Forest Service, be left to
men lacking the best technical
equipment.

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the district landscape officers as the second description of the second description of the second description of the second description description description descriptions.

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3. Finally the Forest Service should find it possible to secure help on various plans from time to time from sources outside the official organization. Should the Forest Service be able to employ the services of professional landscape architects upon major projects, such a course would be in the highest degree advisable. While the writer continues to occupy his .. present collaboratorship it will be possible for him to do a small amount of primary planning and more frequently to pass upon plans prepared by others. This collaborative connection could probably be established with other landscape engineers whenever it may appear to be in the interest of the Forest Service.

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Current Problems

My recent visit to the several districts has shown that problems of two types are especially exigent. The first has to do with road and trail building, the second with the subdivision of land for summer-home permits.

Thousands of miles of roads and trails are built upon the Forests for administrative and other purposes. Practically all of these are used more or less for recreation, - some of them quite extensively. In certain instances roads and trails are being built primarily for recreation service. Practically speaking the recreation use of trails never interferes with their administrative service, so that we may feel free to

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develop the recreation values of these roads and trails to the utmost.

Such development involves the technical application of a few simple principles of landscape engineering which need not be rehearsed here, but which might be presented in printed form so as to serve as a practical guide for forest rangers engaged in trail location. Such instructions might enable the ranger to make the landscape along his trails much more effective for the passerby. If this suggestion should be approved by the Forester I will endeavor to prepare some instructions of this character at an early date.

The problem of land subdivision stands in precisely

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the same status. While it will be much better to employ on each one of these problems some man of proper technical training, experience and taste, and while the organisation already recommended should make such men available presently for such work, nevertheless something may be accomplished in the meantime by supplying supervisors and rangers with a few simple suggestions for the application of the principles of landscape engineering to those subdivision surveys which must be handled now. With the approval of the Forester I will undertake the preparation of such written suggestions.

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Personal

port without an expression of my personal satisfaction in the opportunity afforded me for the study of so large and interesting a problem, of the delight I have found in visiting the splendid domain of the National Forests.

of grateful recognition of the manifold courtesies received at the hands of forest officers everywhere, and of admiration for the skill, devotion and esprit de corps of the entire personnel.

Respectfully submitted

Collaborator

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